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AMPHIBIA

COMPILED BY

Alice G. C. Grandison, B.Sc. (Recent)
and W. E. Swinton, Ph.D. (Fossil)

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16A. AMPHIBIA

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CONTENTS

	PAGE
I. TITLES	2
II. SUBJECT INDEX:—	
General	24
Structure	25
Physiology	27
Reproduction and Sex	33
Development	33
Evolution and Genetics	35
Ecology and Habits	36
Geographical Distribution	38
Palaeontology and Geological Distribution	40
III. SYSTEMATIC INDEX:—	
General	40
Gymnophiona	40
Caudata	41
Salientia	49

I.—TITLES

- Acolait, L. & Cornier, P. Etude comparée des reponses du coeur de la grenouille et du coeur de l'escargot a des chocs induits de rupture ou de fermeture d'intensite variable et portes methodiquement sur les diferentes parties. Ann. Sci. Univ. Besançon (2) Zool. et Phys. No. 1 1954 : 3-19.
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Transplants, Implants, Grafting, etc.—Xenoplastic transplantations between *Triton alpestris* and *Bombinator pachypus*, Chen, P. S. & Baltzer, F.—Reversed polarity transplants of forelimbs and regeneration in *Triturus viridescens*, Dent, J. N.—Paroxysmic activity of deplanted nerve centres and grafted limbs in *Ambystoma* and *Triturus*, Desmedt, J. E.—Graft experiments on

ectoderm in *Anura*, Detlaf, T.—Heteroplastic grafts in study of retinal inductions in *Ambystoma tigrinum* and *A. punctatum*, Detwiler, S. R. & Van Dyke, R. H.—Xenoplastic transplantations of limb territory between *Triton* and *Discoglossus*, Durante, M.—Neural implants of *Triton alpestris* on *Bombinator pachypus*; study of growth, Eymann, H. & Roth, H.—Grafts of marked organiser on non-radioactive hosts in study of neural induction, Ficq, A.—Behaviour of tissues of adult Teleost implanted in eye of *Rana*, Giovannella, B. & Pecini, M.—Transplantability of a spontaneous visceral tumour in *Triturus pyrrhogaster*, Inoue, S. (2).—Experiments with transplants between normal and hybrid *Bufo* larvae, Natale, L. D.—Study of origin of pigment cells in salamander embryos, Niu, M. C.—Explantation of presumptive endoderm of *Triturus pyrrhogaster* gastrulae in study of the rôle of the mesoderm in differentiation, Okada, T. S. (1).—Experimental hybridisation with *Bufo vulgaris* and *B. viridis*, Perri, T. (2).—Transplants of neural crests in study of its potency, Raunich, L.—Transplants of young gastrula of *Triturus alpestris* on to neck region of *Salamandra maculosa* in study of differentiation, Rubbel-Hellner, R. & Luther, W.—Effect of xenoplastic adrenal transplants of *Rana* on limb regeneration in *Triturus*, Schotté, O. E. & Lindberg, D. A. B.—Origin and development of the tail of *Rana pipiens*, Smithberg, M.—Lens regeneration in secondary pupils created by implants, Stone, L. S. (2).—Transplanted eye of *Triturus taeniatus* in study of specificity of retina, Székely, G.—Replacement of presumptive mesoderm of gastrulae of amphibians in study of production of visceral asymmetry, Takaya, H.—Grafting experiments in *Anura*, Vereiskaya, V. N.—Transplants of lentogenic ectoderm in study of organogenesis of crystalline lens in *Anura*, Vincentis, M. de.—Study of tooth growth in neural crest chimaeras of *Bombinator*, Wagner, G.—Transplants of hypophysis between *Ambystoma* and *Rana* in study of thyrotrophic field effect, Washowski, H. E.

Pregnancy Test Use.—Response of male *Rana pipiens* to fish and mammal gonadotrophins, Atz, E. H. & Pickford, G. E.—Rôle of Salientia; list of species

used; bibliography, Bhaduri, J. L.—Bovine pregnancy test by faecal solutions using *Bufo melanostictus*, Bhaduri, J. L., Chakravarti, R. N. & Bardhan, N. R.—Spermatozoa emission after injection of gonadotropins is independent of anterior lobe of hypophysis, Kissen, A. T.

Diseases.—Causes of death in some amphibians in captivity, Hill, W. C. O.—Spontaneous tumor in liver and spleen in *Triturus pyrrhogaster*, Inoue, S. (2).—Effects of carcinogen on adult and larval amphibians, McCallion, J.—Relation between oedema and abnormalities of the excretory organs in tadpoles of *Bufo vulgaris formosus*, Muto, Y. & Ozaki, M.

REPRODUCTION AND SEX

Reproduction. — *Microhyla carolinensis* in Louisiana and Florida, Anderson, P. K.—Reproductive cycle in *Taricha torosa*, Miller, M. R. & Robbins, M. E.—Reproductive behaviour in *Xenopus laevis*, Russell, W. M. S.

Hybridization. — Hybrids between *Triturus italicus* (Peracca) and *T. vulgaris meridionalis* by artificial fertilisation, Benazzi, M.—Observations on nucleic acids during development of lethal hybrid *Triton palmatus* × *Salamandra atra*, Chen, P. S.—Hybrid between *Triturus montandoni* and *T. vulgaris*, Geyer, H.—Triploid hybrid of *Bufo vulgaris* and *B. viridis*, Hertwig, G., Ruhland, G. & Weiss, I.—*Triturus marmoratus* × *T. cristatus karelinii*, genetical cytology and observations on phenotypes and spermatogenesis, Lantz, L. A. & Callan, H. G.—Transplantations between hybrids *Bufo vulgaris* and *B. viridis*, Perri, T. (2).—Hybridization in Amphibia, Raven, C. P.—Abnormalities between experimental hybrids of *Rana pipiens* from Wisconsin and Mexico, Volpe, E. P. (1).—Hybrid abnormalities in crosses between *Bufo americanus* and *B. fowleri* from different geographical regions, Volpe, E. P. (2).—Results of cross breeding eggs of *Rana sylvatica cherokiana* with sperm of *R. boylei*, *R. temporaria*, *R. pipiens*, *R. arvalis*, Witschi, E.

Parthenogenesis.—General notes on frog parthenogenesis, Raven, C. P.

Secondary Sex Characters.—Development of the dorsal crest of *Triturus cristatus carnifex*, Peyrot, A. (2).—

Specific characteristics of the mental hedonic gland clusters in males of the Plethodontidae, Truffelli, G. T.

Sex Dimorphism.—Males much larger than females in *Pyrricephalus adspersus*, Balinsky, B. I. & J. B.—? In Permian fossil amphibians, Langston, W.

Sex Maturation.—Seasonal changes in the testes of *Taricha torosa*, Miller, M. R. & Robbins, M. E.

Sex Hormones.—Influence of sex hormones on sex differentiation in the Amphibia, Gallien, L. (4).

Intersex.—In adult *Rana temporaria*, Sahli, F. & Legendre, R.

Sex Reversal.—Action of oestradiol; its masculinization action on *Rana dalmatina* when used in large quantities, Bellanca, A.—Feminizing effect of testosterone; differentiation of mesonephric blastema, Bruner, J. A. & Witschi, E.—Experimental feminisation by hormones, Gallien, L. (1).—Experimental reversal under action of hormones in *Pleurodeles waltlii*, Gallien, L. (3).—Experimental sex reversal in Amphibia by injection of hormones, Gallien, L. (4).—Sex reversal in male *Bufo melanostictus*, Johri, L. N.—Feminization of tadpoles of *Rana esculenta* by plant estrogens, Sabbadin, A. & Mengarda, G.

DEVELOPMENT

Egg: oogenesis.—Developmental abnormalities resulting from over ripeness of amphibian eggs, Blandau, R. J.—Structure of egg cortex of *Triturus alpestris* under electronic microscope, Dollander, A.—Properties of cortex in *Triturus*, Dollander, A. & Vivier, F.—*Triturus vulgaris*, Freytag, G. E. (1).—Development of egg of *Rana temporaria*, figs., Hoefke, R. (2).—Study of normal and aberrant meiosis in oocytes of *Triturus viridescens*, Humphries, A. A.—Occurrence of metachromasy in jelly coat, Kelly, J. W.—Structure of jelly coat and observations on perforation of envelope and hatching, Kobayashi, H. (1).—Activity in the oocytes of *Rana tigrina* and *R. cyanophlyctis* studied under phase contrast microscope, Nath, V. & Molhotra, S. K.—Effect of rotation of egg envelope on orientation of embryo, Vintemberger, P. & Clavert, J.—Variation in size of eggs of subspecies of *Rana sylvatica*, Witschi, E.

Sperm: spermatogenesis.—Mobility of sperm in testicles and urine at varying temperatures, **Astrada, J. J.** (1).—Movement of sperm of toad in various solutions, **Astrada, J. J.** (2).—Gonadotrophin effect on spermiation in *Bufo arenarum*, **Houssay, B. A., Penhos, J. C. & Burgos, M. H.**—Observations on phenotypes and spermatogenesis of interspecific hybrids between *Triturus marmoratus* and *T. cristatus karelinii*, **Lantz, L. A. & Callan, H. G.**—Seasonal variation in spermiation in *Bufo arenarum*, **Penhos, J. C., Cornfield, J. & Cordero Funes, J. R.**—Variation in size of sperm in subspecies of *Rana sylvatica*, **Witschi, E.**

Embryology.—Of *Pseudopaludicola falcipes* and *Physalaemus henseli*, **Barrio, A.**—Of amphibia, **Brien, P.**—Experimental linking of mesonephric tubes and primary ureter in *Rana dalmatina*, **Cambar, R.** (2).—Chronological table of development of *Rana dalmatina*, **Cambar, R. & Marrot, B.**—Hatching mechanism in *Rana dalmatina*, **Cambar, R. & Williaume, R.**—The egg and development of larvae of *Triturus vulgaris*, **Freytag, G. E.** (1).—Study of eggs and tadpoles of *Hyla phaeocrypta* and *H. versicolor*, **Hellman, R. E.**—Rôle of fibrous protein in morphogenesis of nervous system, **Kaplan, J. G.**—Development of a tetraploid *Rana limncharis*, **Kawamura, T. & Moriwaki, T.**—Hatching mechanism in *Bufo vulgaris formosus*; structure of jelly coat, **Kobayashi, H.** (1).—Development of the presumptive epidermis in the neurula of *Triton alpestris*, **Mangold, O.**—Rôle of mesoderm in the differentiation of presumptive endoderm; importance of mesenchymatous tissue, **Okada, T. S.** (1).—Rôle of mesenchymatous tissue in differentiation of presumptive endoderm, **Okada, T. S.** (2).—Effect of lithium chloride on development of eggs of *Rana pipiens*, **Paterson, M. C.**—Study of agents inducing amphibian notochord, **Ranzi, S. & Citterio, P.**—Study of potency of neural crest in frogs, **Raunich, L.**—Normal and experimental embryology in Amphibia, **Raven, C. P.**—Development of visual cells of *Rana temporaria* and *Xenopus laevis*, **Saxen, L.** (2).—Development of branchial blood circulation in Amphibia, **Shmalgauzen, I. I.** (1).—Development of gills, blood vessels and muscles in

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Chemical embryology.—Effects of lithium on embryonic development of *Xenopus laevis*, **Bäckström, S.**—Appearance of liver glycogen independent of metamorphosis, **Beaumont, A.**—Nucleic acid content in embryonic cells of lethal Urodele hybrid, **Chen, P. S.**—On the presence of free amino acids in eggs and embryos of *Triturus*, **Chen, P. S. & Rickenbacher, J.**—Glycogen utilization by embryos of *Rana pipiens*, **Cohen, A. I.**—Distribution of phosphorus in *Rana pipiens* gastrula, **Grant, P.**—Pattern of intracellular oxidation of reduced dyes in developing embryos of *Rhacophorus schlegelii arborea*, **Ikushima, N.** (1).—Inhibition of development process after treatment with KCN and dinitrophenol, **Ikushima, N.** (2).—Fibrous protein in development of neural plate in *Rana pipiens*, **Kaplan, J. G.**—Effect of thiourea on hatching, **Kobayashi, H.** (2).—Effect of thiourea, ions, Ph and ascorbic acid on jelly swelling in *Bufo vulgaris formosus*, **Kobayashi, H.** (3).—Relation between perforation of jelly string and CO₂ production in embryos of *Bufo vulgaris formosus*, **Kobayashi, H.** (4).—Effect of urea treatment on embryos of *Rana esculenta*, **Leone, V.**—Effect of lithium on eggs of *Rana japonica* and *R. nigromaculata*, **Ogi, K.**—Animalization or notochord evocation by urea and high pH, **Ranzi, S. & Citterio, P.**—Water uptake during development of *Rana pipiens* and *Ambystoma punctatum*, **Rappaport, E.**—Development of the hind limb of *Xenopus laevis* after treatment with antimitotic substance, **Tschumi, P.**—Control of growth and development by hormones (thymus), **Warmbach, H.** (2).

Organisers.—Experimental induction of supernumerary limbs in Anura, **Dei,**

L.—Neural induction in embryos of *Ambystoma* and *Pleurodeles*, Eyal-Giladi, H.—Analysis of neural induction in *Rana* and *Axolotl*, Ficq, A.—Induction of supernumerary limbs in *Anura* and *Urodela*, Perri, T. & Notarnicola, L.—Interaction between dead organiser and presumptive ectoderm in *Rana* and *Hyla*, Smith, A. E. S. & Schechtman, A. M.—On the induction of mesoderm with abnormal inductors, Toivonen, S.

Organogeny.—Normal sexual organogenesis in *Pleurodeles waltlii*, Gallien, L. (3).—Organogenesis of the crystalline lens in *Anura*, Vincentiis, M. de.

Metamorphosis.—Retardation after treatment with vitamins, hormones and antibiotics, Bhattacharya, G. C.—Development and metamorphosis of the intestine of *Xenopus laevis*, Geigy, R. & Engelmann, F.—Development and metamorphosis of a tetraploid *Rana limnocharis*, Kawamura, T. & Moriwaki, T.—Of *Bufo regularis*, *Rana occipitalis* and *R. crassipes*, Lamotte, M. & Zuber-Vogeli, M. (1).—Of *Astylosternus occidentalis* and *Petropedetes natator*, Lamotte, M. & Zuber-Vogeli, M. (2).—Changes in thymus gland of *Microhyla ornata* during metamorphosis and development, Rao, M. A.—Development of the hind limb of *Xenopus laevis*, Tschumi, P.

Larval Stages.—Variation in the rows of labial teeth in tadpoles, Bresler, J. & Bragg, A. N.—Larval development in *Bufo woodhousei* and *Scafinopus holbrookii*, Gosner, K. L. & Black, I. H.—Development of horn in the mouth of the larva of *Bombinator pachypus*, Henzen, W.—Of *Bufo regularis*, *Rana occipitalis* and *R. crassipes*, Lamotte, M. & Zuber-Vogeli, M. (1).—Of *Astylosternus occidentalis* and *Petropedetes natator*, Lamotte, M. & Zuber-Vogeli, M. (2).—Development of vision in *Rana temporaria* and *Xenopus laevis*, Saxén, L. (1).—Study of tooth development in *Triton* and *Bombinator*, Wagner, G.—Dynamics of limb growth in *Rana* and *Bufo*, Wurbach, H. (1).

Growth.—Size and growth rates in *Eurycea bislinata*, Duellman, W. E. & Wood, J. T.—Study of growth of neural implants of *Triton alpestris* on *Bombinator pachypus*, Eymann, H. & Roth, H.—Growth rate in a marked popula-

tion of *Batrachoseps attenuatus*, Hendrickson, J. R.—Cephalo-cerebral proportions in Urodeles, Jacquot, M.—Variations in size of *Telmatobius hauthali schreiteri* tadpoles due to endocrine condition, Pisano, A. & Rengel, D.—The weight-length relation in a population of *Xenopus laevis*, Van Wyk, G. F.—Dynamics of growth of limbs in larval *Rana* and *Bufo*, Wurbach, H. (1).

Ontogeny.—Secretory activity in sub-commissural organ cells in larval *Rana agilis*, Mazzi, V. (3).

Neoteny.—Experimental neoteny in frog and Urodeles, Delsol, M. (1).—On one of the probable causes for neoteny in Urodeles, Delsol, M. (2).—In *Triturus vulgaris*, Freytag, G. E. (1).—Note on neoteny in a British newt, Leutscher, A. (3).

Teratology.—Teratogenic development of amphibia due to over-ripeness of eggs, Blandau, R. J.—Supernumerary left arm in female *Rana esculenta*, Chalaux, J.—Relations of symmetry in supernumerary limbs, Perri, T. (1).—Forward displacement of heart of *Rana temporaria*, Price, M.—Imperfect cyclopean eye in *Ambystoma mexicanum*, Sladeczek, F.

Effects of environment.—Overwintering of *Ambystoma* and *Rana palustris* in Nova Scotia, Bleakney, J. S.—Temperature effect on labial teeth and mandible development in tadpole of *Rana berlandieri* and *Bufo cognatus*, Bresler, J.—Temperature effect on extrusion of embryos of *Bufo vulgaris* from jelly string, Kobayashi, H. (3).

EVOLUTION AND GENETICS

General works; theories.—Chromosomes of *Telmatobius schreiteri*, Barbieri, F. D. (1).—Brien, P.—Geographic and genetic isolation in *Crinia signifera* and *Hyla aurea*, Moore, J. A.—Ecology, evolution and dispersal of the reptiles and amphibians of S.E. Guatemala, Stuart, L. C. (2).

Phylogeny.—Phylogenetic considerations of the Salientia based on a study of the otic element, associated muscle and Bidder's organ, Griffiths, I.—Of Shoulder-girdle, Gross, W.—Phylogeny of conducting system and heart discussed, Prakash, R.

Evolution of organs.—Bidder's organ in the Salientia, Griffiths, I.—Structure of amphibian kidneys, Yoshioka, S.

Biometrics.—Taxonomic status of *Amphiuma*, Hill, I. R.

Melanism.—Distribution of melanism in Urodeles and taxonomic treatment, Wahlert, G. von.

Genetics of Sex.—Genetical analysis of sex reversal, Gallien, J. (4).

Chromosome problems.—Heterotypic division in somatic tissue of tail tip of *Telmatobius schreiteri*, Barbieri, F. D. (2).—Brien, P.—Chromosome number of the progeny of triploid male *Ambystoma*, Fankhauser, G. & Humphrey, R. R.—Lampbrush chromosomes from oocyte nuclei of *Triturus viridescens*, Gall, J. G.—Occurrence of tetraploidy in *Rana limnocharis*, Kawamura, T. & Moriawaki, T.—Experimental production of gynogenetic haploids using *R. nigromaculata* eggs and sperm from *R. japonica* and *R. rugosa*, Miyada, S.—Method for counting chromosomes in amphibians, Walsh, M. P. & Archambault, W. V.

Experimental.—Study of the progeny of triploid males of *Ambystoma tigrinum*, Fankhauser, G. & Humphrey, R. R.—On the mitotic increase of old and regenerated epithelium of amputated forelimb and dorsal skin in *Triturus pyrrhogaster*, Inoue, S. (1).—Phenotypes and spermatogenesis of interspecific hybrids between *Triturus marmoratus* and *T. cristatus*, Lantz, L. A. & Callan, H. G.—Mitotic reaction induced in liver cells of *Triton cristatus*, Merlo, A. S.—Study of intensity of isolation between *Bufo americanus* and *Bufo fowleri* from different geographical regions, Volpe, E. P. (2).

ECOLOGY AND HABITS

Amphibia.—Ecology and distribution of the herpetofauna of S.E. Guatemala, Stuart, L. C. (2).

Amphibia: Salientia.—General notes on the habits, range and specialisation, Egert, C. M. (1).—Argentine amphibians, Cei, J. M.

Amphibia: Caudata.—General information on salamanders, newts and hellbenders, Egert, C. M. (1).—*Triturus vulgaris* development, distribution and habits, Freytag, G. E. (1).

Aestivation.—Observations on *Ensatina* during summer, Stebbins, R. C.

Aquaria, Terraria.—Terrarium for European frogs and salamanders and *Ambystoma*; note on feeding, Iersel, R. v. (1).—*Hyla raddiana* in captivity, Iersel, R. v. (2).—*Triturus boscai* in captivity, Lang, H.—Habits and needs of newts in captivity, Leutscher, A. (2).—*Limnodynastes*, *Hyla regilla*, *Hyperolius melanoleucus*, Oeser, R. (1) & (2).—*Hyla arborea meridionalis*, Stemmler, O.

Behaviour.—Aggregation and feeding behaviour in tadpoles of *Scaphiopus huerterii*, Bragg, A. N. (3).—Effect of autumn rains on activity of *Ambystoma tigrinum*, Duellman, W. E. (2).

Breeding and Parental Habits.—Of *Pyxicephalus adspersus*, Balinsky, B. I. & J. B.—Pairing, copulation and egg laying in *Bombina*, Birkenmeier, E.—Notes on egg laying and parental habits of *Alytes*, *Gastrotheca*, *Phyllobates*, *Pipa* and *Rhinoderma*, Bogert, C. M. (1).—Observations on breeding congresses and sites of *Rana areolata*, Bragg, A. N. (5).—Of S. Oregon amphibians, Farner, D. S. & Kezer, J.—Notes and times for European frogs, Hoefke, R. (1).—Social patterns in *Syrnophus* and *Eleutherodactylus*, Jameson, D. L.—Transportation of egg cluster by female *Ensatina eschscholtzii*, Kessel, E. L.—Of *Alytes obstetricans*, Oyen, W. G. v.—Reproductive behaviour of *Xenopus laevis*, Russell, W. M. S.—Insemination, fertilization, oviposition and brooding in genus *Ensatina*, Stebbins, R. C.—*Ambystoma tigrinum* in Maryland, Stine, C. J., Fowler, J. A. & Simmons, R. S.

Burrowing Habits.—Burrowing habits in damp soil of *Amphiuma means*, Knepton, Jr., J. C.—Cave salamanders, McCrady, E.

Conservation.—Factors affecting the *Xenopus laevis* population in South Africa, Van Wyk, G. F.

Courtship.—Observations on *Triturus vulgaris*; variation in appearance at breeding time, Freytag, G. E. (1).—In *Ensatina eschscholtzii xanthoptica*, Stebbins, R. C.

Diseases.—Constipation in *Pleurodeles walil*, Freytag, G. E. (3).—Causes of death of amphibians in captivity, Hill, W. C. O.

Dispersal.—Of *Aneides aeneus*, Gordon, R. E.—Distribution of the herpetofauna of the S.E. highlands of Guatemala, Stuart, L. C. (2).

Distribution.—Of the races of *Triturus vulgaris*, Freytag, G. E. (1).

Economies.—Note on toads as pest exterminators, Bogert, C. M. (1).—Use of the poison of toads, Bogert, C. M. (2).—Economic status of the toad, Hamilton, W. J.—*Rana grylio* and *R. catesbeiana* collected for food in Louisiana, Limer, E. A.—Frog cultivation, Oeser, R. (1) & (2).

Effects of Environment.—Effect of autumn rains on a population of *Ambystoma* in Michigan, Duellman, W. E. (2).—Response to climatic factors by a population of *Batrachoseps attenuatus*, Hendrickson, J. R.—Wintering of *Rana esculenta* and effects of ice, Lups, E. M. D.—Effect of humidity and temperature on a population of *Ensatina* in California, Stebbins, R. C.—Temperature preference in Amphibia, Strübing, H.

Enemies and Defence.—Note on poison glands in toad's and *Rana palustris* skin, Bogert, C. M. (1).—Sound production in most salamanders part of a defense mechanism, Maslin, T. P.—Defense display in *Ambystoma jeffersonianum*, Rand, A. S.—Predators of *Ensatina* and *Batrachoseps*, Stebbins, R. C.

Feeding Habits.—*Microhyla carolinensis*, Anderson, P. K.—Absorption of food in *Bombina*, Birkenmeier, E.—Of Salamanders, Toads and *Pipa pipa*, Bogert, C. M. (1).—Diet of *Bufo vulgaris*, Bruege, H.—Of *Necturus louisianensis*, Cagle, F. R. (2).—Of *Triturus granulatus mazamae*, Farner, D. S. & Kezer, J.—Indian Bullfrog preying on Kingfishes, Gay, T.—Diet of toads and their economic value, Hamilton, W. J.—Food and feeding habits of *Rana sphenoccephala* and *Hyla cinerea*, Kilby, J. D.—Of *Pseudacris nigrita*, *Bufo hemiophrys* and *Rana pipiens*, Moore, J. E. & Strickland, E. H.—Of the genus *Ensatina*, Stebbins, R. C.—Frog eggs main diet of tadpoles of *Anotheca coronata*, Taylor, E. H. (1).—Of *Notophthalmus v. viridescens* in Virginia, Wood, J. T. & Goodwin, O. K.

General Habits.—*Microhyla carolinensis*, Anderson, P. K.—Amphibians of the world, Bogert, C. M. (1).—Of *Necturus louisianensis*, Cagle, F. R. (2).—Of Argentine amphibians, Cei, J. M.—Habitat, food and eggs of *Plethodon richmondi*, Duellman, W. E. (1).—Note on the possible relation between absence of lungs in salamanders and habits, Elkan, E.—*Megalobatrachus japonicus* in captivity. Lived in zoo for 43 years, Gijzen, A.—Of *Aneides aeneus*, Gordon, R. E.—Of European *Anura*, Lierath, W. (1), (2) & (3).—Brazilian frogs, Lutz, B.—Of *Alytes obstetricans*, Oyen, W. G. v.

Hibernation.—Of *Aneides aeneus*, Gordon, R. E.—Observations on *Ensatina*, Stebbins, R. C.

Homing.—Homing instinct in *Bufo regularis*, Jordan, H. D.

Locomotion.—Of *Microhyla carolinensis*, Anderson, P. K.

Longevity.—Of Cryptobranchidae, Bogert, C. M. (1).—*Megalobatrachus japonicus* in zoo for 43 years, Gijzen, A.—Note on ages of amphibians in captivity, Nigrelli, R. F.—Of genus *Ensatina*; individuals estimated as being at least 8½ years; 10 to 15 year-olds may occur, Stebbins, R. C.

Migration.—Observations on *Bufo b. bufo* in Dorset, Moore, H. J.

Nesting Habits.—Of Argentine amphibians, Cei, J. M.—Egg-laying habits of *Ambystoma jeffersonianum*, Stille, W. T.—Ovarian egg complements and nests of *Eurycea b. bislineata* × *cirrigera*, Wood, J. T. & McCutcheon, H. N.

Parasitism.—*Megalobatrachus japonicus* parasitized by flagellate *Costia necatrix*, Porter, A.

Population Studies.—On the ecology of *Microhyla carolinensis*, Anderson, P. K.—Movement of *Bufo boreas* and *Rana pretiosa* in Wyoming, Carpenter, C. C.—Of *Aneides aeneus*, Gordon, R. E.—Of *Batrachoseps attenuatus* at Berkeley, California, Hendrickson, J. R.—Ecological study of populations of *Bufo* and *Scaphiopus* in New Mexico, Lowe, C. H., Jr. (1).—Geographic variation in *Rana clamitans*, Mecham, J. S.—The genus *Ensatina* in California, Stebbins, R. C.

Sex relations.—Reproductive behaviour and egg deposition of *Microhyla carolinensis*, Anderson, P. K.

Social and Gregarious Habits.—Social aggressiveness in *Phyllobates trinitatis*, Test, F. H.

Song: Voice.—Breeding call and notes of *Microhyla carolinensis*, Anderson, P. K.—Mating call of *Bufo alvarius*, Blair, W. F. & Pettus, D.—Of *Bufo terrestris charlesmithi*, Bragg, A. N. (4).—Autumn croaking by frogs in Yorkshire, Hazelwood, A.—*Hyla raddiana*, Iersel, R. v. (2).—The calls of *Eleutherodactylus* and *Syrrophus*, Jameson, D. L.—The call of the tree frog, *Hyla a. arborea*, Kousnetzoff, W.—Stimulation of *Scaphiopus* by call, Lowe, C. H. Jr. (1).—Of *Eleutherodactylus cavernicola*, Lynn, W. G.—Production of sound in the Urodela, Maslin, T. P.—Of *Rana clamitans*, Mecham, J. S.—Of *Leptodactylus fallax*, Menne, H. A. L. (2).

Technique.—Tagging of frogs, Dely, O. G.—Method for trapping adult *Ambystoma maculatum*, Moulton, J. M.

GEOGRAPHICAL DISTRIBUTION

General: Zoogeography.—Amphibians of the world, Bogert, C. M. (1).—Zoogeography and systematics of Philippine Amphibia, Inger, R. F. (1).—Geographic and genetic isolation in Australian *Hyla* and *Crinia*, Moore, J. A.—Faunal realms, regions and provinces, charts, Schmidt, K. P. (1).—Analysis of the herpetofauna of the S.E. Highlands of Guatemala, Stuart, L. C. (2).

PALEARCTIC REGION

Europe.—Herter, K. & W.

Gt. Britain.—Leutscher, A.—Yorkshire (*Helmsley*), Hazelwood, A.—Dorset, Moore, H. J.

Austria.—Papp, A. & Thenius, E.—(*Burgenland*), Sochurek, E. (2).

Corsica.—Goux, L.

Denmark.—Bornholm, Larsen, A.

France.—Camargue, Petit, G. & Schachter, D.—Provencal, Vanden Eeckhoudt, J. P.

Germany.—Freitag, G. E. (1).—Harz, Freitag, G. E. (2).—Lower Saxony, Rabeler, W.

Greenland.—Nielsen, E.

Italy.—Lanza, B.—*Elba*, Sochurek, E. (1).—*Gran Paradiso National Park*, Piedmont Alps, Tortonese, E. & Rossi, L.

Japan.—Moriya, K.—*Kyushu*, Sato, S.

Netherlands.—Horst, J. T.

N. Africa.—*Algeria (Bougie)*, Bellairs, A. d'A. & Shute, C. C. D.—*Morocco*, Chabanaud, P.—*Morocco (South)*, Panousse, J. B.

Roumania.—Fuhn, I. E.

Sweden.—Hübener, H. E. (3).—(*East central*), Walden, H. W.

ORIENTAL REGION

Andaman Islands.—Cherchi, M. A.

India.—Bhaduri, J. L. & Kirpalani, M.

Pakistan.—Mertens, R. (3).

Philippine Islands.—Inger, R. F. (1).

Malaysia.—*N. Borneo (Mt. Kina Balu)*, Inger, R. F. (2).—*Malaya*, Tweedie, M. W. F. & Harrison, J. L.

AUSTRALIAN REGION AND POLYNESIA

Australia.—(*South West*), Lee, A. K. & Main, A. R.—*Main*, A. R.—Moore, J. A.

Papuan Subregion.—*Papua*, Neill, W. T. (1).

Tasmania.—*N.W.*, Hewer, A. M.

ETHIOPIAN REGION

East Africa.—*Kenya*, Battersby, J. C.—*Laurent*, R. (2).

West Africa.—*French Guinea*, Chabanaud, P.—*Portuguese Guinea*, Teixeira da Mota, A.

South Africa.—*Transvaal (N. Johannesburg)*, Balinsky, B. I. & J. B.—*N.E. Angola (Dundo)*, Laurent, E. F. (4).—*Cape Province and Natal*, Loveridge, A.—*Damaraland*, Mertens, R. (1).

NEARCTIC REGION

Schmidt, K. P. (4.)

Canada.—*Labrador*, Backus, R. H.—(*Eastern*), Bleakney, S. (1).—*Nova Scotia*, Bleakney, J. S. (2).—*British*

Columbia (Vancouver Island), Hardy, G. A.—*Ontario*, Mecham, J. S.—*Alberta*, Moore, J. E. & Strickland, E. H.

North Eastern States.—Mecham, J. S.—*S. Illinois*, Stein, H. A.—*Illinois (Chicago)*, Stille, W. T.—*Indiana, Ohio (S.W.)*, Duellman, W. E. & Wood, J. T.—*Indiana (Chesterton)*, Rand, A. S.—*Maryland*, Stine, C. J., Fowler, J. A. & Simmons, E. S.—*Michigan (S.E.)*, Duellman, W. E. (2).—*New Jersey*, Gosner, K. L. & Black, I. H.—*Ohio (S.W.)*, Duellman, W. E. (1).—*Ohio*, Gordon, R. E.—*Ohio*, Green, D. M. & Walker, Jr., W. F.—*S.E. Pennsylvania (Unami Valley)*, Hudson, R. G.—*W. Virginia*, Gordon, R. E.—*Wisconsin*, Volpe, E. P. (1).

South Eastern States.—Mecham, J. S.—*Alabama*, Brown, J. S. & Boschung, Jr., H. T.—*Alabama*, Gordon, R. E.—*Alabama*, Neill, W. T. (2).—*Alabama (Blount County)*, Thurow, G. R.—*S.E. Arkansas*, Bragg, A. N. (4).—*Arkansas*, Neill, W. T. (2).—*N. Carolina*, Eaton, T. H.—*N. Carolina (Shackleford Banks)*, Engels, W. L.—*N. Carolina (New Hanover County)*, Funderburg, J. B.—*N. Carolina (Highlands) and S. Carolina*, Gordon, R. E.—*Carolina*, Neill, W. T. (2).—*S. Carolina*, Quinby, J. A. (1) & (2).—*S. Carolina*, Schwartz, A.—*N. Carolina*, Witschi, E.—*Florida*, Hellman, R. E.—*Florida*, Neill, W. T. (2).—*Georgia*, Gordon, R. E.—*Georgia*, Knepton, Jr., J. C.—*Georgia (Dade County)*, Martof, B.—*Georgia*, Neill, W. T. (2).—*Kentucky*, Gordon, R. E.—*Kentucky*, Neill, W. T. (2).—*Louisiana (Lafayette, Terrebonne and Vermilion Parishes)*, Liner, E. A.—*Louisiana*, Neill, W. T. (2).—*Mississippi*, Neill, W. T. (2).—*Mississippi (Newton County)*, Telford, S. R., Jr.—*Tennessee*, Endsley, J. R.—*Tennessee*, Gordon, R. E.—*Tennessee (Franklin County)*, McCrady, E.—*Tennessee*, Neill, W. T. (2).—*Tennessee (Franklin County)*, Owen, H. M. & Yeatman, H. C.—*Virginia (S.W.)*, Newman, W. B. (1).—*Virginia*, Newman, W. B. (2).—*Virginia*, Wood, J. T. & Goodwin, O. K.—*S.E. Virginia*, Wood, J. T. & McCutcheon, H. N.

Middle and Western States.—*Arizona*, Blair, W. F. & Pettus, D.—*Arizona (Greenlee County)*, Calef, B. T.—*Arizona*, Howes, P. G.—*Arizona (Santa*

Cruz County), Lowe, C. H., Jr. (2).—*Colorado (N.C.)*, Beidleman, R. G.—*S.E. Kansas*, Bragg, A. N. (4).—*Kansas (Meade County)*, Tihen, J. A.—*Nevada*, Brattstrom, B. H.—*New Mexico*, Langston, W.—*New Mexico*, Lowe, C. H., Jr. (1).—*C. Oklahoma*, Bragg, A. N. (1).—*Oklahoma (Le Flore County)*, Bragg, A. N. (2).—*Oklahoma (Cleveland County)*, Bragg, A. N. (4).—*E. Oklahoma*, Bragg, A. N. (5).—*Oklahoma*, Bresler, J. & Bragg, A. N.—*Oklahoma (N.E.)*, Lindsay, Jr., H. L.—*Oklahoma and Kansas*, Mecham, J. S.—*S. Oregon (Crater Lake National Park)*, Farner, D. S. & Kezer, J.—*Texas (Brazos County)*, Baldauf, R. J. & Lord, Jr., R. D.—*Texas (S. of Jefferson County, Oklahoma)*, Bragg, A. N. (4).—*Texas (Doss, E. Texas)*, Cagle, F. R. (1).—*Wyoming*, Carpenter, C. C.

Pacific Coast States.—*California (Mariposa County)*, Gorman, J.—*California (Marin County)*, Kessel, E. L.—*California*, Maslin, T. P.—*California*, Stebbins, R. C.—*California*, Zweifel, R. G. (1).—*Oregon (Multnomah County) and Washington (Skamania County)*, Burns, D. M.—*S. Oregon (Crater Lake National Park)*, Farner, D. S. & Kezer, J.—*Oregon*, Stebbins, R. C.

CENTRAL AMERICA

Costa Rica.—Taylor, E. H. (2).

Cuba.—Menne, H. A. L. (2).

Dominica.—Menne, H. A. L. (2).

Guatemala.—(*Rio Motagua*), Stuart, L. C. (1).—(*S.E. Highlands*), Stuart, L. C. (2).—Stuart, L. C. (3).

Mexico.—Bumzahem, C. B. & Smith, H. M.—(*S. Veracruz*), Darling, D. M. & Smith, H. M.—(*Jorullo Volcano, Michoacan*), Duellman, W. E. (3).—Firschein, I. L.—(*Sonora*), Langebartel, D. A. & Smith, H. M.—(*Michoacan*), Peters, J. A.—(*Sonora*), Savage, J. M. (2).—Volpe, E. P. (1).—(*Sinaloa*), Zweifel, R. G. (2).

Nicaragua.—Brattstrom, B. H. & Howell, T. R.

West Indies.—*Jamaica*, Ahrenfeldt, R. H.—*Jamaica*, Goin, C. J. (1) & (2).—*Jamaica (Clarendon Parish)*, Lynn, W. G.

SOUTH AMERICA

Argentina.—Arámburu, A. S. A. de.—Barran, E. F. & Freiburg, M. A.—Ceí, J. M.—Freiberg, M. A. (2).—Pisano, A. & Rengel, D.

Brazil.—(*Federal District*), Lutz, B.

Chile.—Schmidt, K. P. (3).

Peru.—Schmidt, K. P. (2).

Surinam.—Menne, H. A. L. (2).

Venezuela.—(*Maracay*), Test, F. H.

PALAEOLOGY AND
GEOLOGICAL DISTRIBUTION

Carboniferous.—Waterston, C. D.

Permian.—Langston, W.—Rusconi, C.

Trias.—Nielsen, E.

Pliocene.—Papp, A. & Thenius, E.—Zweifel, R. G. (1).

Pleistocene.—Tihen, J. A.

D. M. & Smith, H. M.—Amphibians from Tennessee, Endsley, J. R.—Amphibians of Crater Lake National Park, S. Oregon, Farner, D. S. & Kezer, J.—Amphibians of New Hanover County, N. Carolina, Funderburg, J. B.—Amphibians of the Forbidden Plateau, Vancouver Island, B.C., Hardy, G. A.—Breeding dates of European amphibians, Høefke, R. (1).—Amphibians of the Philippine Islands; keys and figs.; study of the zoogeography, Inger, R. F. (1).—Amphibians of Louisiana, Liner, E. A.—Amphibians in south-eastern United States, Neill, W. T. (2).—Amphibians of the Camargue, France, Petit, G. & Schachter, D.—Developmental physiology in Amphibia, Raven, C. P.—Amphibians used in studies on regeneration of the lens, Reyer, E. W. (1).—A checklist of N. American amphibians, 6th Edition, Schmidt, K. P. (4).—Amphibians of S. Illinois, Stein, H. A.—Temperature preference in Amphibia, Strübing, H.—Herpetofauna of the S.E. Highlands of Guatemala, Stuart, L. C. (2).—The amphibians of east central Sweden, Walden, H. W.

III.—SYSTEMATIC INDEX

THE ORDERS, AND FAMILIES AND GENERA WITHIN THEM, ARE ALPHABETICALLY ARRANGED.

References to the "Titles" is by the name(s) of the Author(s) printed in clarendon type.

AMPHIBIA

General: Fossil.—Structure and function of limbs. General anatomical notes, Brien, P.—Phylogeny of Shoulder-girdle, Gross, W.—Review of Fossil Amphibians, Swinton, W. E.—Geological History of the Biosphere, Termier, H. & Termier, G.—Type and figd. specimens in Royal Scottish Museum, Waterston, C. D.

General: Recent.—Amphibians of E. Canada; summary of range extensions, Bleakney, S. (1).—Distribution and taxonomic relationships of the amphibians of Nova Scotia, Bleakney, J. S. (2).—Frogs and Toads of the world—a general account, Bogert, C. M. (1).—Comparative anatomy; development, circulatory system, Brien, P.—Amphibians from Eastern Mexico, Darling,

GYMNOPHIONA

CAECILIIDAE

Development of the excretory system, structure of urino-genital system, structure of olfactory organ, notes on teeth, heart and chromosomes, Brien, P.

Caecilia, note on Müllerian duct, Brien, P.

Gegenophis carnosus, study of the external gills, figs., Ramaswami, L. S.

Hypogeophis, note on structure of teeth and ovary, Brien, P.

Ichthyophis, formation of dental lamina; note on chromosomes, Brien, P.—*I. glandulosus* = *I. monochrous*, Inger, R. F. (1).—*I. glutinosus*, olfactory organ, fig., Brien, P.—*I. glutinosa*; *I. monochrous*, of Malaya, Tweedie, M. W. F. & Harrison, J. L.—*I. monochrous*, from Mindanao; redescribed; note on ecology and range; *I. glandulosus* referred to synonymy, Inger, R. F. (1).—*I. weberi*, considered a synonym of *I. monochrous*, Inger, R. F. (1).

Uraeotyphlus narayani, chromosomes figd., Brien, P.

CAUDATA

Salamanders, Hellbenders and Newts—a general account, **Bogert, C. M. (1)**.—Structure of the heart in salamanders; structure and development of auditory apparatus and olfactory organ; notes on eye, urino-genital system, chromosomes, **Brien, P.**—Development of the skull in the amphibia, **Fox, H.**—Newts of Germany with special emphasis on *Triturus vulgaris*, **Freytag, G. E. (1)**.—Production of sound in the Caudata, **Maslin, T. P.**—Distribution of melanin and taxonomic treatment, **Wahlert, G. von.**

AMBYSTOMIDAE

Ambystoma, stages in the development of the embryos (figs.); note on osteology, **Brien, P.**—*Ambystoma* sp. vertebra in Pleistocene of Kansas, **Tihen, J. A.**

Ambystoma c. cingulatum, from Marion County, Florida; extension of range, **Neill, W. T. (2)**.—*A. c. bishopi*, range extended into Newton County, Mississippi; larva described, **Telford, S. R., Jr.**

Ambystoma gracile, from Crater Lake National Park, S. Oregon, **Farner, D. S. & Kezer, J.**—*A. g. gracile*, from Multnomah County, Oregon, **Burns, D. M.**—Common on Forbidden Plateau, Vancouver Island; note on eggs, larvae and their food, **Hardy, G. A.**

Ambystoma jeffersonianum, from Prince Edward Island, E. Canada; range extended to Nova Scotia; note on records from E. Canada, **Bleakney, S. (1)**.—[*Ambystoma jeffersonianum*], overwintering in Nova Scotia, **Bleakney, J. S. (2)**.—*A. jeffersonianum*, in S.E. Michigan, **Duellman, W. E. (2)**.—Defense display, **Rand, A. S.**—Egg laying habits, **Stille, W. T.**—On the appendicular skeleton; scapula and pelvis figd., **Stokely, P. S. & Holle, P. A.**

Ambystoma opacum, feminizing effect of testosterone; potentiality of mesonephric blastema cells, **Bruner, J. A. & Witschi, E.**—From Tennessee, **Endsley, J. R.**—From New Hanover County, N. Carolina, **Funderburg, J. B.**—From Unami valley, S.E. Pennsylvania, **Hudson, R. G.**—From Lafayette Parish, Louisiana; preyed on by *Thamnophis*, **Liner, E. A.**—From S. Illinois, **Stein, H. A.**—On the appendicular skeleton;

scapula and pelvis figd., **Stokely, P. S. & Holle, P. A.**—Role of the nerve in limb regeneration, **Thornton, C. S.**—Study by electron microscope of basement lamella of larval skin, **Weiss, P. & Ferris, W.**

Ambystoma punctatum, phenomenon of endogenous paroxysmic discharges of grafted limb innervated by deplanted nerve centres, **Desmedt, J. E.**—Observations on retinal inductions, **Detwiler, S. R. & Van Dyke, R. H.**—Effect of extirpation of larval heart on structure, development and balance, **Kemp, N. E. & Quinn, B. L.**—Origin of pigment cells in medullary plate and neural crest, **Niu, M. C.**—Water uptake during development, **Rappaport, R.**—A review on lens regeneration, **Reyer, R. W. (1)**.—Thyrotrophic field effect of immature hypophysis, **Washowski, H. E.**—Study by electron microscope of basement lamella of larval skin, **Weiss, P. & Ferris, W.**

Ambystoma macrodactylum, on the appendicular skeleton; scapula and pelvis figd., **Stokely, P. S. & Holle, P. A.**—*A. m. macrodactylum*, from Crater Lake National Park, S. Oregon; note on life history and food, **Farner, D. S. & Kezer, J.**—From Forbidden Plateau, Vancouver Island, **Hardy, G. A.**

Ambystoma maculatum, occurs on Prince Edward Island, E. Canada, **Bleakney, S. (1)**.—In S.E. Michigan, **Duellman, W. E. (2)**.—From Henderson, Tennessee, **Endsley, J. R.**—Breeding dates in Unami valley, S.E. Pennsylvania, **Hudson, R. G.**—Note on sound produced, **Maslin, T. P.**—Notes on habitat, collecting method, eggs and maintenance in captivity, **Moulton, J. M.**—Florida specimens misidentified, should be *A. tigrinum*; note on frequency of occurrence in S.E. United States, **Neill, W. T. (2)**.—Effects of ultra-violet on developing forelimb, **Rieck, A. F.**—From S. Illinois, **Stein, H. A.**—On the appendicular skeleton; scapula and pelvis figd., **Stokely, P. S. & Holle, P. A.**

Ambystoma mexicanum, process of neural induction from gastrula stage, **Eyal-Giladi, H.**—Action of lithium ions on morphogenesis, **Lallier, R.**—Study of factors controlling barred pigment pattern in larvae, **Lehman, H. E.**—Origin of pigment cells in medullary plate and

neural crest, **Niu, M. C.**—A review on lens regeneration, **Reyer, R. W.** (1).—Case of a cyclopean eye and problems of embryonic induction, **Sladeczek, F.**—Inhibition of growth and differentiation during embryonic development, **Stolk, A.**

Ambystoma talpoideum, from Henderson, Tennessee, **Endsley, J. R.**—Range in southeast U.S.A., **Neill, W. T.** (2).—From S. Illinois, **Stein, H. A.**—On the appendicular skeleton; scapula and pelvis figd., **Stokely, P. S. & Holle, P. A.**

Ambystoma texanum, occurrence in Louisiana; effect of turbidity of water on pigmentation, **Liner, E. A.**—Carolina, Georgia and Florida records probably based on misidentified specimens, **Neill, W. T.** (2).—From S. Illinois, **Stein, H. A.**—On the appendicular skeleton; scapula and pelvis figd., **Stokely, P. S. & Holle, P. A.**

[*Ambystoma tigrinum*], overwintering in Nova Scotia, **Bleakney, J. S.** (2).—*A. tigrinum*, effect on development of hormonal action in differing media; absence of calcium and magnesium, **Brocq, P. & Roth, C. J.** (1).—Action of hormones on development; absence of potassium and sodium, **Brocq, P. & Roth, P. C. J.** (2).—On the absence of antibiotic substance in the skin, **Daniel, J. C. & Simpson, R. W.**—Observations on retinal inductions, **Detwiler, S. R. & Van Dyke, R. H.**—Chromosome number and development of the progeny of triploid males, **Fankhauser, G. & Humphrey, R. R.**—Neotenic larva lived 25 years in captivity; adult 16 years, **Nigrelli, R. F.**—Reported from Appalachian region, Tennessee, **Owen, M. M. & Yeatman, H. C.**—Animalization or notochord evocation by urea and high pH, **Ranzi, S. & Citterio, P.**—A review on lens regeneration, **Reyer, R. W.** (1).—Action of hormones on metamorphosis, **Sluczewski, A. & Roth, P. C. J.** (1).—Action of cortisone and ACTH on metamorphosis, **Sluczewski, A. & Roth, P. C. J.** (2).—*A. t. mavortium*, unusual occurrence in limestone cave in C. Colorado, **Beidleman, R. G.**—*A. t. melanostictum*, general note on axolotl, **Bogert, C. M.** (1).—*A. t. nebulosum*, from Greenlee County, Arizona, **Calef, R. T.**—Study of production of sound, figs., **Maslin, T. P.**—*A. t. stebbinsi*, subsp. nov. from Parker Canyon, S.W. side of Huachuca Mts., 5000 ft., 3.5 miles

North of Mexican border, Santa Cruz County, Arizona, **Proc. biol. Soc. Wash.** 67, 1954, p. 243, **Lowe, C. H. Jr.** (2).—*A. t. tigrinum*, effect of autumn rains on movements, **Duellman, W. E.** (2).—From Henderson County, Tennessee, **Endsley, J. R.**—From S. Illinois, **Stein, H. A.**—Life history, photos., range in Maryland, **Stine, C. J., Fowler, J. A. & Simmons, R. S.**—*A. t. tigrinum*, *A. t. diaboli*, study of appendicular skeleton; scapulae and pelvis figd., **Stokely, P. S. & Holle, P. A.**

Dicamptodon ensatus, from Multnomah County, Oregon, **Burns, D. M.**—On production of sound and presence of vocal cords and true voice, figs., **Maslin, T. P.**—On the appendicular skeleton; figs. of scapula and pelvis, **Stokely, P. S. & Holle, P. A.**

Rhyacotriton olympicus, from Skamania County, Washington, **Burns, D. M.**—On the appendicular skeleton; scapula and pelvis figd., **Stokely, P. S. & Holle, P. A.**—Distribution of melanin in *o. olympicus* and *o. variegatus*, **Wahlert, G. von.**

Siredon mexicanum, circulatory system of limbs, fig., **Brien, P.**—Effect of X-rays on development of anterior part of head, **Brunst, V. V.**

AMPHIUMIDAE

Amphiuma, erythrocytes (fig.); chromosomes, **Brien, P.**—A statistical taxonomic study: divisible into two groups—no intergradation on the basis of toe number and throat coloration, **Hill, I. R.**—*A. means*, notes on emission of sounds, **Maslin, T. P.**—Life span 27 years, **Nigrelli, R. F.**—*A. m. means*, note on occurrence at 3 ft. in damp soil, **Knepton, Jr., J. C.**—*A. m. tridactylum*, common in swampy areas in Louisiana: preyed on by *Ancistronodon*, **Liner, E. A.**—Should be deleted from Florida's herpetofaunal list, **Neill, W. T.** (2).—*A. tridactylum*, from Tennessee, **Endsley, J. R.**

CRYPTOBRANCHIDAE

Cryptobranchius, eye structure, **Brien, P.**—*C. alleganiensis*, note on habits, 29 years in captivity, **Bogert, C. M.** (1).—From Hardin County, Tennessee, **Endsley, J. R.**—Life span 29 years, **Nigrelli, R. F.**—†*Cryptobranchius* aff. *scheuchzeri* in Lower Pliocene of the

Vienna District, Papp, A. & Thenius, E.

Megalobatrachus, on eyelid; nerve supply to limbs; pronephros, Brien, P.—*M. japonicus*, its present and past distribution discussed; note on longevity, Bogert, C. M. (1).—*C. japonicus* [*Megalobatrachus maximus*], development of the skull with reference to circulatory and nervous systems, Fox, H.—Chromosomes figured, Brien, P.—Habits in captivity: lived in zoo for 43 years, Gijzen, A.—Notes on sound production; origin of the vernacular, "childfish." Maslin, T. P.—Life span of 55 years, Nigrelli, R. F.—Infested with flagellate *Costia necatrix*, Porter, A.

HYBRIDS

Eurycea b. bislineata × *cirrigera*, ovarian egg complements and nests, Wood, J. T. & McCutcheon, H. N.

Triturus italicus (Peracca) × *T. vulgaris meridionalis* Blgr., study of reproductive barriers between the species, Benazzi, M.—*Triton palmatus* ♀ × *Salamandra atra* ♂, observations on nucleic acids during embryonic development, Chen, P. S.—*Triturus marmoratus* × *T. cristatus karelinii*, observations on phenotypes and spermatogenesis, Lantz, L. A. & Callan, H. G.—*Triturus montandoni* × *T. vulgaris*, Geyer, H.

HYNOBIIDAE

Chromosomes, Brien, P.

Batrachuperus pinchonii, note on eye, Brien, P.—On melanin distribution, Wahlert, G. von.—*B. sinensis*, development of cephalic and cerebral regions, Jacquot, M.

Hynobius, structure of the kidney; relation between canaliculi and sperm path traced in following species:—*negrescens*, *retardatus*, *lichenatus*; figs., Yoshioka, S.—*H. leechii*, fig. of chromosomes, Brien, P.—*H. nebulosus*, importance of presumptive mesoderm in producing visceral asymmetry, Takaya, H.—*H. negrescens*, study of cytoplasmic granules of erythrocytes, Nagatani, Y.—*H. unnangso*, a review on lens regeneration, Reyer, R. W. (1).

Onychodactylus japonicus, structure of the kidney and relation between canaliculi and sperm path, figs., Yoshioka, S.

Pachypalaminus boulengeri, from 500–1100 m. in Mt. Sobo, Oita Prefecture, Kyushu, Japan, Sato, S.

Ranodon, lachrymal nasal canal, Brien, P.

Salamandrella, limb development.—*S. keyserlingi*, development of posterior limb, figs., Brien, P.

PLETHODONTIDAE

Chromosomes, Brien, P.

Aneides aeneus, note on habits, Bogert, C. M. (1).—Life history and ecology, Gordon, R. E.—On its occurrence and habitat in S. Carolina, Schwartz, A.—*A. lugubris*, on habits, development and diet, Bogert, C. M. (1).—From Marin County, California, Kessel, E. L.—From Contra Costa County, California; preys on *Batrachoseps*, Stebbins, R. C.—*A. l. lugubris*, observations on production of sound, Maslin, T. P.

Batrachoseps, characters and habits of the genus: two species recognised:—*B. wrighti*, monotypic species, status discussed, distinguishing characters listed, distribution; *B. attenuatus*, contains several distinct populations belonging to two subspecies *attenuatus* and *pacificus*, area of intergradation in south of range, Hendrickson, J. R.—Note on feeding habits and competition with *Ensatina*; preyed on by *Aneides lugubris*, Stebbins, R. C.—*B. attenuatus*, general note on absence of lung, fig., Elkan, E.—From Marin County, California, Kessel, E. L.—From Contra Costa County, California, Stebbins, R. C.

Bolitoglossa, structure of the mental hedonic gland clusters: species studied:—*mexicana*, *platydactyla*, *striatula*, *flavi-ventris*, *veracruzis*, *rufescens*, *schmidtii*; figs., Truffelli, G. T.—*B. arborescens* sp. nov. from Moravia de Chirripo, Limon Province, Costa Rica p. 600, pl.; *B. lignicolor*, from San Isidro del General, Costa Rica; *B. alvaradoi* sp. nov. from Moravia de Chirripo, Limon Province, Costa Rica, p. 604, pl. Kansas Univ. Sci. Bull. 36 1 1954, Taylor, E. H. (2).

Chiropterotriton, structure of the mental hedonic gland clusters; species studied:—*multidentata*, *terrestris*, *chiroptera*, *larvae*, *dimidiata*, *chondrostega*, *arborea*; figs., Truffelli, G. T.—*C.*

abscondens, from Costa Rica; note on habitat, plate, **Taylor, E. H. (2)**.—*C. chiroptera*, from N. Perote, Veracruz, **Darling, D. M. & Smith, H. M.**

Desmognathus, note on "voice," **Maslin, T. P.**—*D. aeneus aeneus*, widespread in uplands of N. Georgia: *a. chermocki*, of Alabama and Georgia: *fuscus fuscus*, occurrence in Florida: *monticola jeffersoni*, range restricted to Blue Ridge of Virginia, **Neill, W. T. (2)**.—*D. fuscus*, thyroidal response to goitrogens, **Fisher, J.**—*D. f. brimleyorum*, occurrence in Louisiana, **Liner, E. A.**—*D. f. fuscus*, note on range in E. Canada; range extension in Quebec; absent from Nova Scotia, **Bleakney, S. (1)**.—Common at Henderson, Tennessee, **Endsley, J. R.**—Abundant at Unami valley, S.E. Pennsylvania, **Hudson, R. G.**—From S. Illinois, **Stein, H. A.**—*D. ochrophaeus carolinensis*, *D. monticola*, *D. perlapsus* from N. Carolina: note on habitat, eggs, embryo (figs.) and relationships of *perlapsus*, **Eaton, T. H.**—*D. wrighti*, mention of size, **Bogert, C. M. (1)**.

Ensatina eschscholtzi, general note on absence of lung, fig., **Elkan, E.**—Note on parental habits and transportation of egg cluster, **Kessel, E. L.**—Study of natural history; observations on shedding of skin, regeneration of limbs and tail, predators, diet, breeding habits, growth, effects of environment, **Stebbins, R. C.**—*E. e. oregonensis*, from Skamania County, Washington, **Burns, D. M.**—From Crater Lake National Park, S. Oregon: specimen intermediate between *oregonensis* and *platensis* according to Stebbins' revision, **Farner, D. S. & Kezer, J.**

Eurycea bislineata, note on production of sound, **Maslin, T. P.**—*E. b. bislineata*, note on occurrence in New Brunswick, **Bleakney, S. (1)**.—From Unami valley, S.E. Pennsylvania, **Hudson, R. G.**—From S. Illinois, **Stein, H. A.**—*E. b. cirrigera*, from Henderson, Tennessee, **Endsley, J. R.**—*E. b. rivicola*, study of size and growth, **Duellman, W. E. & Wood, J. T.**—*E. longicauda guttolineata*, from Henderson, Tennessee, **Endsley, J. R.**—*E. l. longicauda*, from a cave in S.W. Virginia, **Newman, W. B. (1)**.—From S. Illinois, **Stein, H. A.**—*E. lucifuga*, note on range and affinity with *longicauda* in Georgia, **Neill, W. T. (2)**.—From S. Illinois, **Stein, H. A.**

Gyrinophilus palleucus, **sp. nov.** from Sinking Cove Cave, Franklin County, Tennessee; largest American cave salamander: points of anatomy and osteology discussed, **Copeia 1954, 3, p. 201**, fig., **McCrady, E.**—*G. porphyriticus duryi*, first record from Virginia, **Newman, W. B. (2)**.—*G. p. porphyriticus*, note on range in E. Canada; extension in Quebec, **Bleakney, S. (1)**.—Extension of range into Alabama; note on habitat and distribution, **Thurrow, G. R.**

Hemidactylium scutatum, extensions of range in Nova Scotia and Quebec, **Bleakney, S. (1)**.—From Unami valley, S.E. Pennsylvania, **Hudson, R. G.**

Hydromantes brunus, **sp. nov.** from N.N.E. of Briceburg, Mariposa County, California, p. 153: compared with *H. platycephalus* and *H. shastae*, figs. of tooth patterns, **Gorman, J.**—[*Hydromantes genei*] *Spelerpes fuscus*, histochemical study of polysaccharides, **Gerzeli, G.**—*H. genei gormani*, occurrence and structure of brain mast cells, **Mazzi, V. (2)**.—*H. g. italicus*, occurs in Provencal France up to 1800 metres; note on habits, **Vanden Eeckhoudt, J. P.**—*H. italicus* Dunn, notes on distribution and geographic races in Italy, map and colour plates. Three races recognised:—*H. i. italicus* fig., *H. i. gormani* Lanza, fig., *H. i. ambrosi* subsp. nov. p. 251 figs. from a cave at Sprugola Cornese, near Vallone of Fabiano at 240 m.; common near La Spezia, Liguria, Arch. Zool. (ital.) Napoli 39 1954, **Lanza, B.**—*H. platycephalus*, note on tolerance of cold, **Bogert, C. M. (1)**.

Lineotriton lineola, structure of the mental hedonic gland cluster, fig., **Truffelli, G. T.**

Magnadigita, structure of the mental hedonic gland cluster. Species studied:—*torresi*, *pesrubra*, *nigroflavescens*, *subpalmata*, *robusta*; figs., **Truffelli, G. T.**—*Magnadigita* sp., in association with *Pseudoeurycea exspectata* in S.E. highlands, Guatemala, **Stuart, L. C. (2)**.

Maniculus quadridigitatus, from New Hanover County, N. Carolina, **Funderburg, J. P.**—From Louisiana, **Liner, E. A.**—Status and range in Florida, **Neill, W. T. (2)**.

Oedipina, structure of the mental hedonic gland clusters. Species studied:—*cyclocauda*, *uniformis*, *bonitaensis*;

figs., Truffelli, G. T.—*O. alleni*, sp. nov. from Palmar, Puntarenas Province, Costa Rica, p. 607, pl. related to *O. parvipres*, Kansas Univ. Sci. Bull. 36 1 1954, Taylor, E. H. (2).—*O. taylora*, of S.E. highlands, Guatemala, Stuart, L. C. (2).

Palmatotriton Smith 1945, in agreement with Hobart Smith's 1954 proposals on the validity of the generic name and species name *rufescens* Cope, 1869, Mertens, R. (2).—*Palmatotriton*, Smith 1945. Support for non-recognition of the name, Sabrosky, C. W.—*Palmatotriton*, on the use of the name and its validity; proposal to suppress the generic name and place specific name *rufescens* Cope 1869 on official list of specific names, Smith, H. M.

Plethodon c. cinereus, from Prince Edward Island; note on range in E. Canada, Bleakney, S. (1).—From New Hanover County, N. Carolina, Funderburg, J. B.—From Unami valley, S.E. Pennsylvania, Hudson, R. G.—*P. glutinosus*, common in Tennessee, Endsley, J. R.—*P. g. glutinosus*, from Unami valley, S.E. Pennsylvania; stomach contained shed skin, Hudson, R. G.—From S. Illinois, Stein, H. A.—*P. jacksoni*, sp. nov. from Trillium Vale, 2100 ft., 1 m. E. of Blacksburg, Montgomery County, Virginia, p. 9, fig., Herpetologica 10, 1954, Newman, W. B. (1).—*P. jonahlossee* [jonahlossee], range extension in Virginia, Newman, W. B. (1).—*P. jordani melaventris*, variation in topotypes, Howell, T. & Hawkins, A.—*P. richmondi*, in S.W. Ohio; note on habitat, food and eggs, Duellman, W. E. (1).—Extension of range in Ohio, Green, D. M. & Walker, Jr., W. F.—*P. vandykei larselli*, subsp. nov., from Larch Mountain, Multnomah Falls Trail, Multnomah County, Oregon, p. 83; Note on range of *P. v. vandykei* and habitat: *P. vehiculum*, from Skamania County, Washington: *P. dunni*, from Multnomah County, Oregon: Distribution of species discussed, Burns, D. M.—*P. wehrlei*, range in Virginia, Newman, W. B. (1).—*P. v. dixi*, common on stalactites near Salem, Virginia, Bogert, C. M. (1).

Pseudoeurycea, structure of the mental hedonic gland clusters. Species studied:—*cephalica*, *leprosa*, *gadovii*, *belli*; figs., Truffelli, G. T.—*P. exspectata*,

sp. nov. from 2525 m., Miramundo, 7 kms. S.E. of Jalapa, Guatemala, related to *P. goebeli*, p. 159, Proc. biol. Soc. Wash. 67 1954, Stuart, L. C. (3).—Note on habitat and faunal relationship in S.E. highlands, Guatemala, Stuart, L. C. (2).—*P. leprosa*, from N. Perote, Veracruz, photo, Darling, D. M. & Smith, H. M.—*P. werleri*, sp. nov. from Volcan San Martin, Veracruz, E. Mexico, p. 180: closely related to *P. c. cephalica*, Trans. Kans. Acad. Sci. 57 1954 pl., Darling, D. M. & Smith, H. M.

[*Pseudotriton*] *Speleperpes ruber*, development of cephalo-cerebral region, Jacquot, M.—*Pseudotriton r. ruber*, common at Henderson, Tennessee, Endsley, J. R.—From New Hanover County, N. Carolina, Funderburg, J. B.—From Unami valley, S.E. Pennsylvania, Hudson, R. G.—*P. r. vioscai*, note on extension of range eastwards into S. Carolina, Neill, W. T. (2).

Speleperpes, note on reduced circulatory system, Brien, P.—*S. fuscus*, see under *Hydromantes genei*.—*S. ruber*, see under *Pseudotriton*.

Thorius, structure of the mental hedonic gland clusters. Species studied:—*narisovalis*, *pulmonaris*, *macdougalli*, *pennatulus*, *dubitus*, *troglodytes*; figs., Truffelli, G. T.

Typhlomolge rathbuni, occurrence in Artesian wells mentioned, Bogert, C. M. (1).—From Artesian wells and caves in Texas; general note on cave salamanders, distribution map, McCrady, E.

Typhlotriton, note on the eye, Brien, P.—*T. spelaesus*, adults confined to caves, note on loss of sight; normal eyes in laboratory reared specimens, Bogert, C. M. (1).—*T. spelaesus* and *T. nereus*, from caves of Ozark plateau; general note on cave salamanders: map, McCrady, E.

PROTEIDAE

Chromosomes, Brien, P.

Haideotriton wallacei, mentioned, Bogert, C. M. (1).—From a 200 ft. well at Albany, Georgia; general note on cave salamanders, distribution map, McCrady, E.

Necturus, notes on eye, olfactory organ, sternum and urino-genital system (diag.).—*N. maculatus*, section through costal ribs figd., Brien, P.—The levator

anguli scapulae muscle, **Harris, J. P., Jr.** (2).—On the allopatric distribution and relationship of *punctatus* and *lodingi*, **Neill, W. T.** (2).—*Necturus* guide to dissection of, **Walker, W. F.**—*N. louisianensis*, observations on the life history; stomach contents, **Cagle, F. R.** (2).—*N. maculosus*, general note; occasionally eats fish eggs, **Bogert, C. M.** (1).—On the absence of antibiotic substance in the skin, **Daniel, J. C. & Simpson, R. W.**—On the common and scientific names applied to the species in the past, **Harris, J. P., Jr.** (1).—Life span 9 years, **Nigrelli, R. F.**—*N. m. maculosus*, from S. Illinois, **Stein, H. A.**

Proteus, on origin of the limbs. Erythrocytes and thrombocytes figured, **Brien, P.**—*P. anguinus*, *P. zoissi*, note on cave salamanders, **McCrary, E.**—On production of sound, **Maslin, T. P.**

SALAMANDRIDAE

Chromosomes, **Brien, P.**—Morphology of sebaceous glands, **Eber, G.**

[*Cynops*] *Triturus ensicauda*, lens regeneration from the iris—a review, **Reyer, R. W.** (1).—[*Cynops*] *Triturus pyrrhogaster*, effect of X-rays on early development, **Amanuma, A.**—Effect of DOCA on sex differentiation of gonad, **Asayama, S.-I.**—On the factors determining limb regeneration, **Ichikawa, M. & Okada, K.**—Pattern of intracellular oxidation of reduced dyes in developing embryo, **Ikushima, N.** (1).—On the mitotic increase of regenerating epithelium, **Inoue, S.** (1).—Case of a tumor in liver and spleen; study of its transplantability, **Inoue, S.** (2).—Ovulatory response to hormonal steroids, **Kambara, S.**—Study of cytoplasmic granules of erythrocytes, **Nagatani, Y.**—Life span 25 years, **Nigrelli, R. F.**—Rôle of mesoderm in the differentiation of presumptive endoderm; importance of mesenchymatous tissue, **Okada, T. S.** (1).—Rôle of mesenchymatous tissue in differentiation of presumptive endoderm, **Okada, T. S.** (2).—Lens regeneration from the iris, **Reyer, R. W.** (1).—Importance of presumptive mesoderm in producing visceral asymmetry, **Takaya, H.**—Observations on nucleus of erythrocyte, **Tsutsumi, M.**—Structure of the kidney; relation between canaliculi and sperm path, figs., **Yoshioka, S.**—*Cynops p. immaculiventris*, on melanin

distribution, **Wahlert, G. von.**—*Trituroides chinensis* [*C. chinensis*], on melanin distribution, **Wahlert, G. von.**

Diemictylus, see under *Notophthalmus*.

Euproctus montanus, study of life history, ecology, distribution on Corsica, respiration: evolution of the genus, comparison with *E. asper*, **Goux, L.**—Death from inanition in zoo, **Hill, W. C. O.**

Mertensiella caucasica, distribution and morphology of skin glands; fig., **Eber, G.**

Molge, see under *Triturus*.

[*Notophthalmus*] *Triturus viridescens*, on habits, courtship, development and diet, **Bogert, C. M.** (1).—Quantitative study of forelimb regeneration; rôle of stump tissues, **Chalkley, D. T.**—On the absence of antibiotic substance in the skin, **Daniel, J. C. & Simpson, R. W.**—Lampbrush chromosomes from oocyte nuclei, **Gall, J. G.**—Normal and aberrant meiosis in oocytes, **Humphries, A. A.**—[*Notophthalmus*] *Diemictylus viridescens*, remarks on the ecological habitats of *v. louisianensis* and *v. viridescens* in Okaloosa County, Florida. Note on priority of *piaropicola* over *evergladensis* and its range in Florida, discussion of status of *perstriatus* and affinity with *viridescens*, **Neill, W. T.** (2).—Effect of transplanted adrenals of *Rana* on hypophysectomized and normal specimens; ability to regenerate limbs restored, **Schotté, O. E. & Lindberg, D. A. B.**—[*Notophthalmus*] *Diemictylus v. louisianensis*, occurrence and breeding dates in Louisiana, **Liner, E. A.**—[*N.*] *T. v. viridescens*, common on Prince Edward Island, E. Canada, **Bleakney, S.** (1).—Effect of cortisone and ACTH on renal fat and limb regeneration, **Bragdon, D. E. & Dent, J. N.**—Limb regeneration in reversed polarity, **Dent, J. N.**—*Diemictylus v. viridescens*, common at Unami valley, S.E. Pennsylvania; diet includes eggs of *Rana sylvatica*, **Hudson, R. G.**—*T. v. viridescens*, *T. v. dorsalis*, a review on lens regeneration, **Reyer, R. W.** (1).—*T. v. viridescens*, lens regeneration from dorsal iris, **Reyer, R. W.** (2).—From S. Illinois, **Stein, H. A.**—Histology of the ultimobranchial body, **Steinitz, H. & Stone, L. S.**—Experimental lens regeneration, **Stone, L. S.** (1).—Lens

regeneration in secondary pupils, **Stone, L. S. (2)**.—Lens and iris regeneration, **Stone, L. S. & Griffith, B. H.**—*Notophthalmus v. viridescens*, abundance in Virginia, habitat, food and feeding habits, **Wood, J. T. & Goodwin, O. K.**

Pleurodeles waltli, eye figured, **Brien, P.**—Error likely in 1921 French Guinea record; locality probably Morocco, **Chabanaud, P.**—Experimental neoteny, **Delsol, M. (1)**.—Effect of benzogyn-oestryl on Müller's canal, **Delsol, M. (2)**.—Distribution and morphology of skin glands; fig., **Eber, G.**—Neural induction from gastrula stage, **Eyal-Giladi, H.**—A case of constipation, **Freytag, G. E. (2)**.—Sex reversal by synthetic hormones, **Gallien, L. (1)**.—Experimental sex reversal, **Gallien, L. (3)**.—Action of sex hormones on the gonad and sex characters, figs., **Gallien, L. (4)**.—Development of the gonads, **Houillon, C.**—Feminization reaction to androgens after hypophysectomy, **Mintz, B. & Gallien, L.**—Experimental study of the hypothalamus-hypophysis connexion, **Pasteels, J. L.**—A review on lens regeneration, **Reyer, R. W. (1)**.—*Triton waltlii* [*P. waltli*], reaction to horse serum, **Urbain, A. & Roth, P. C. J.**

Salamandra, development of the sternum. Urino genital system (Müllerian duct).—*S. atra*, sternum; gestation period; formation of heart, figs.—*S. maculosa*, vertebral column of larva; ribs; leucocytes and heart, fig., **Brien, P.**—*S. atra*, distribution and morphology of skin glands; fig., **Eber, G.**—Development of cephalo-cerebral region, **Jacquot, M.**—*S. maculosa*, distribution and morphology of skin glands; fig., **Eber, G.**—Histochemical study of polysaccharides, **Gerzeli, G.**—Development of cephalo-cerebral region, **Jacquot, M.**—Used as host in study of differentiation, **Rubbel-Hellner, R. & Luther, W.**—*S. salamandra*, study of paratoid gland, figs., **Adam, H. (1)**.—Note on emission of sounds, **Maslin, T. P.**—Rare in the Camargue, France, **Petit, G. & Schachter, D.**—A review on lens regeneration, **Reyer, R. W. (1)**.—Temperature preference, **Strübing, H.**—From Provencal, **Vanden Eeckhoudt, J. P.**—*S. s. salamandra*, on occurrence in E. Austria, **Sochurek, E. (2)**.—*S. s. taeniata*, "voice" described, **Maslin, T. P.**

Salamandrina terdigitata, a review of lens regeneration, **Reyer, R. W. (1)**.

[*Taricha*] *Triturus granulosus*, male breeding characters in hypophysectomised females, **Klatt, B.**—Lens regeneration from the iris—a review, **Reyer, R. W. (1)**.—*T. g. granulosa*, from Multnomah County, Oregon, **Burns, D. M.**—From Circle Lake (in stomach of trout), Vancouver Island, **Hardy, G. A.**—*T. g. mazamae*, from Crater Lake, S. Oregon; note on life history, feeding habits and predators; comparison with typical *granulosus*, **Farner, D. S. & Kezer, J.**—On melanin distribution, **Wahlert, G. von.**—*T. torosa*, endogenous paroxystic discharges of grafted limb innervated by deplanted nerve centres, **Desmedt, J. E.**—From Marin County, California, **Kessel, E. L.**—Reciprocal transplantation experiments with *Ambystoma mexicanum* larvae in study of pigment patterns, **Lehman, H. E.**—Reproductive cycle; seasonal variation in testis, figs., **Miller, M. R. & Robbins, M. E.**—Origin of pigment cells in medullary plate and neural crest, **Niu, M. C.**—Lens regeneration, a review, **Reyer, R. W. (1)**.—From Contra Costa County, California, **Stebbins, R. C.**—*T. t. torosa*, note on emission of sounds, **Maslin, T. P.**

Triturus, urino genital system, figs., **Brien, P.**—Key to German species; descriptions, distribution and general notes, **Freytag, G. E. (1)**.—Synopsis of experiments on nuclear factors of crosses, **Raven, C. P.**

Triturus alpestris, development of the internal ear, figs.; olfactory organ, figd., **Brien, P.**—Xenoplastic transplantations in study on adhesive disk, **Chen, P. S. & Baltzer, F.**—On the presence of free amino acids in eggs and embryos, **Chen, P. S. & Rickenbacher, J.**—Structure of cortex of egg, **Dollander, A.**—Properties of egg cortex in early development; action of urea on it, **Dollander, A. & Vivier, F.**—Distribution and morphology of skin glands; fig., **Eber, G.**—Implanted on *Bombinator pachypus*; study of growth rates, **Eymann, H. & Roth, H.**—Histochemical study of polysaccharides in blood cells, **Gerzeli, G.**—Determination of horn growth in the larval mouth, **Henzen, W.**—In captivity, **Leutscher, A. (2)**.—Development and differentia-

tion of the presumptive epidermis in the neurula, Mangold, O.—On method of sound production, Maslin, T. P.—Lens regeneration from the iris—a review, Reyer, R. W. (1).—Transplanted on to *Salamandra maculosa*. Study of differentiation, Rubbel-Hellner, R. & Luther, W.—Action of colchicine, podophylline and chloral hydrate on the testicle in spermatogenesis, Sentein, P.—Cell adhesion and the role of antigens in embryos, Spiegel, M.—Temperature preference, Strübing, H.—On melanin distribution, Wahlert, G. von.—*T. a. alpestris*, larva desord. and figd.; distribution and characters of adult; key, Freytag, G. E. (1).—Specimen with speckled stomach from Harz, fig., Freytag, G. E. (2).—*T. a. apuanus*, on specimens imported into Netherlands, Hübener, H. E. (1) & (2).

Triturus boscai, in captivity, Lang, H.

Triturus cristatus, general notes; 29 years in captivity; account of breeding habits, Bogert, C. M. (1).—Eye, fig., Brien, P.—Vascularization of respiratory surfaces, Czopek, J. & others.—Xenoplastic transplantations of limb territory to *Discoglossus pictus*, Durante, M.—Distribution and morphology of skin glands; fig., Eber, G.—Revision of subspecies and varieties in Roumania, maps and figs. Included:—*c. cristatus*: *c. danubialis*: *c. danubialis* var. *intermedia* nov. var. from environs of Bucharest and Jassy p. 633: *c. danubialis dobrogicus* from delta of Danube: Bul. sti. Acad. Republ. rom. Biol. 5 3 1953, Fuhn, I. E.—Histochemical study of polysaccharides in blood cells, Gerzeli, G.—Development of cephalo-cerebral region, Jacquot, M.—Notes, Leutscher, A. (1).—In captivity, Leutscher, A. (2).—On the presence and significance of neurosecretory material in the pars intermedia, Mazzi, V. (1).—Experimental study of neurosecretions in the female, Mazzi, V. (4).—[*Triturus cristatus*], tinctorial properties of fuchsin paraldehyde in parts of encephalon, Mazzi, V. (5).—Lens regeneration from the iris—a review, Reyer, R. W. (1).—Temperature preference in *c. cristatus* and *c. carnifex*, Strübing, H.—Reaction to horse serum, Urbain, A. & Roth, P. C. J.—Histology of regenerating cells, Wey-Schué, M.—*T. c. carnifex*, histochemical study of acid poly-

saccharides, Ghiara, F.—Occurrence and structure of brain mast cells, Mazzi, V. (2).—Reaction of liver cells to mitotic induction, Merlo, A. S.—Histology of the dorsal crest, Peyrot, A. (1).—Development of the dorsal crest, Peyrot, A. (2).—*T. c. carnifex*; *T. c. danubialis*, in Burgenland, Austria, Sochurek, E. (2).—*T. c. cristatus*, larva descd. and figd.; note on adult; distribution, Freytag, G. E. (1).—Occurrence in Sweden; photo., Hübener, H. E. (3).—*T. c. flavigastra*, on melanin distribution, Wahlert, G. von.

Triturus ensicauda, see under *Cynops*.

Triturus granulatus, see under *Taricha*.

Triturus helveticus, feeding habits mentioned, Bogert, C. M. (1).—Properties of the egg cortex in early development, Dollander, A. & Vivier, F.—Distribution and morphology of skin glands; figs., Eber, G.—Reported from Helmsley, Yorkshire, Hazelwood, A.—Development of cephalo-cerebral region, Jacquot, M.—Notes, Leutscher, A. (1).—In captivity, Leutscher, A. (2).—From the Camargue, France; absent from Capeliere marsh, Petit, G. & Schachter, D.—Lens regeneration from the iris—a review, Reyer, R. W. (1).—Action of colchicine, podophylline and chloral hydrate on the testicle in spermatogenesis, Sentein, P.—Temperature preference, Strübing, H.—*T. h. helveticus*, relationship with *T. vulgaris*; key to German newts, fig.; larva described, Freytag, G. E. (1).

Triturus marmoratus, effect of benzoate of dihydrofolliculine on the Müller's canal, Delsol, M. (2).—Death from dysentery, Hill, W. C. O.—Rôle of acetylcholine in regeneration, Lecamp, M.—In captivity, fig., Leutscher, A. (2).—Lens regeneration from the iris—a review, Reyer, R. W. (1).

Triturus palmatus, on the presence of free amino acids in eggs and embryos, Chen, P. S. & Rickenbacher, J.—Experimental neoteny, Delsol, M. (1).—Activity of the nuclei in incorporating Glycine-2-¹⁴C, Sirlin, J. L. & Waddington, C. H.

Triturus palustris, life span 28 years, Nigrelli, R. F.

Triturus perstriatus, lens regeneration from the iris, Reyer, R. W. (1).

Triturus pyrrhogaster, see under *Synops*.

Triturus rivularis, origin of pigment cells in medullary plate and neural crest, **Niu, M. C.**—Lens regeneration from the iris, **Reyer, R. W.** (1).

Triturus sierrae, origin of pigment cells in medullary plate and neural crest, **Niu, M. C.**—Lens regeneration—a review, **Reyer, R. W.** (1).

Triturus similans, observations on method of sound production, **Maslin, T. P.**

Triturus taeniatus, male breeding characters in hypophysectomised females, **Klatt, B.**—Induction of supernumerary limbs, **Perri, T. & Notarnicola, L.**—Lens regeneration—a review, **Reyer, R. W.** (1).—Specificity of the different parts of the retina during development, **Székely, G.**

Triturus torosus, see under *Taricha*.

Triturus viridescens, see under *Notoptthalmus*.

Triturus vulgaris, feeding habits mentioned, **Bogert, C. M.** (1).—Vertebral column, section through occipito-atlas region; ribs of embryo, **Brien, P.**—Distribution and morphology of skin glands; figs., **Eber, G.**—Notes on life history, habits, appearance, sense organs and distribution; races recognised, desc'd. and fig'd.:—*lantzi*; *graeus*; *tomasinii*; *meridionalis*; *schreiberi*; *vulgaris*, **Freytag, G. E.** (1).—Development of cephalo-cerebral region, **Jacquot, M.**—Notes, **Leutscher, A.** (1).—In captivity, fig., **Leutscher, A.** (2).—Occurrence and structure of brain mast cells, **Mazzi, V.** (2).—Temperature preference, **Strübing, H.**—On frequency distribution in east central Sweden; note on habits, **Walden, H. W.**—*T. v. vulgaris*, common in Burgenland, Austria, **Sochurek, E.** (2).

Tylostrotion asperrimus, sensory pores on skull and snout, **Brien, P.**—*T. verrucosus*, sensory pores on skull and snout, **Brien, P.**—Distribution and morphology of skin glands; fig., **Eber, G.**

SIRENIDAE

Pseudobranchius, on absence of eyelids, **Brien, P.**—*P. striatus spheniscus*, from Baker County, Florida; extension

of range: *P. belli*, range restricted to Dade County; *P. axanthus*, range restricted to the Central Highlands; *P. lustricolus*, range restricted to the Gulf Hammock, **Neill, W. T.** (2).

Siren intermedia of W. Tennessee, **Endsley, J. R.**—*S. i. nettingi*, from Lafayette Parish, Louisiana, **Liner, E. A.**—From S. Illinois, **Stein, H. A.**—*S. lacertina*, absence of eyelids, **Brien, P.**—On production of sound; "voice" desc'd., **Maslin, T. P.**—From Merritt Island, Florida; remark on resistance to saline conditions: *S. i. intermedia*, from Hernando County; use as fish bait, **Neill, W. T.** (2).—Life span 25 years, **Nigrelli, R. F.**

†STEGOCEPHALI

Chenoprosopus milleri; *Eryops grandis*; *Broiliellus novomexicanus*; *Aspidosaurus apicalis*; *Zatrachys serratus* and *Z. sp.*; *Platyhystrix rugosus*; all in Permian of New Mexico, fig'd. and discussed.—*Zatrachys serratus* Cope, growth series of skulls desc'r. and fig'd. Sexual dimorphism apparent in some, **Langston, W.**—*Tupilakosaurus heilmanni* gen. et sp. nov. (p. 9 & 10); skull, vertebrae and ribs desc'r. and fig'd. Triassic of East Greenland, **Nielsen, E.**—*Chigutisaurus tenax* type in Mendoza Museum, Argentina.—*Icanosaurus rectifrons*, *Chigutisaurus cacheutensis*; types in Mendoza Museum, Argentina.—*Otuminisaurus limensis*; *Chigutisaurus tinuyanensis*; *Icanosaurus rectifrons*. Lower Triassic types in Mendoza Museum, Argentina, **Rusconi, C.**—*Seymouria, kotlassia*, *Discosauriscus* and *Phaiherpeton* (= *Melanerpeton*) compared and discussed, **Watson, D. M. S.**

SALIENTIA

Comparative anatomy (structure of the eye, ear, olfactory organ). General notes on development, **Brien, P.**—Salientia used in pregnancy diagnosis tests; lists of species employed, **Bhaduri, J. L.**—Geographical distribution and habitats of Argentine amphibians, **Cei, J. M.**—The development of the otic element and its associated muscle in the Salientia, **Griffiths, I.**—Amphibians of Dundo, Angola, **Laurent, R. F.** (4).—Frogs of the Federal District, Brazil, **Lutz, B.**—Key to the frogs of S.W. Australia, **Main, A. R.**

ASCAPHIDAE

Ascaphus truei, from Multnomah County, Oregon, Burns, D. M.—*A. t. truei*, from west part of Crater Lake National Park, S. Oregon, Farner, D. S. & Kezer, J.

ATELOPODIDAE

Investigations into Bidder's organ, the otic element and condition of the depressor mandibulae muscle indicate close relationship with Bufonidae, Griffiths, I.

Atelopus, investigation into the otic element and associated muscle in the following species:—*flavescens*, *gracilis*, *ignescens*, *oxyrhynchus*, *varius*, *zeteki*, fig. Morphology of male urinogenital system in *A. gracilis*, *A. varius*, *A. zeteki*, Griffiths, I.—*A. varius*, general note; vernacular in America "Belgian Flag," Menne, H. A. L. (2).

Cacophryne, should be regarded as an independent derivative of the arciferal *Pedostibes* stock: *C. borbonica*, condition of the depressor mandibulae muscle; shoulder girdle arciferofirmisternal, fig.; Bidder's organ present only in young, Griffiths, I.

Dendrophryniscus brevipollicatus, from Federal District, Brazil. Bromeliad breeder; note on habitat; fig., Lutz, B.—*D. moreirae*, note on range, Lutz, B.—*D. stelzneri*, on the origin and development of the otic element and associated muscle; Bidder's organ absent in old individuals, Griffiths, I.

Oreophrynella quelchi, on the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

? *Sminthillus brasiliensis*, generic status uncertain, affinity with *Atelopus*. Rare in Federal District, Brazil, collected in Tijuca Mts., figs., Lutz, B.

BRACHYCEPHALIDAE

Atelopus, see under ATELOPODIDAE.

Brachycephalus ephippium, on the condition of the temporal region, Griffiths, I.—Of Federal District, Brazil; note on habits; fig., Lutz, B.

Cacophryne, see under ATELOPODIDAE.

Dendrobates, see under DENDROBATIDAE.

Dendrophryniscus, see under ATELOPODIDAE.

Oreophrynella, see under ATELOPODIDAE.

Phyllobates, see under DENDROBATIDAE.

Rhinoderma, see under RHINODERMATIDAE.

Sminthillus, see under ATELOPODIDAE.

BREVICIPITIDAE see MICROHYLIDAE.

BUFONIDAE

Investigation into Bidder's organ, the development of the otic element and associated depressor mandibulae muscle. Remarks on close affinity with the Atelopodidae, Griffiths, I.

Ansonia Stoliczka. Genus revived to include *Bufo muelleri* (= *B. mcgregori*), *B. penangensis* and *B. leptopus*. Points of distinction from *Bufo* discussed; map of distribution of species, Inger, R. F. (1).—*A. muelleri* (*Bufo muelleri* Blgr. and *B. mcgregori* Taylor are considered synonymous). Taxonomic notes, redescription, sex dimorphism, ecology, tadpole described and figd.; figs. of head, hand and foot, Inger, R. F. (1).

Bufo, development, chromosomes, urino-genital system, Brien, P.

Bufo alvarius, mating call and behaviour, Blair, W. F. & Pettus, D.—Maximum size 7 inches; note on poison glands, Bogert, C. M. (1).—Note on occurrence in the Arizona cactus forest, Howes, P. G.—From Sonora, Mexico, Langebartel, D. A. & Smith, H. M.

Bufo americanus, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—Chorioid plexus, fig., Hilton, W. A.—Life span 10–15 years, Nigrelli, R. F.—Study of the origin of chromatophores and factors controlling their distribution, Stevens, L. C.—Study of intensity of isolation between species from different geographical regions; crosses with *B. fowleri*, Volpe, E. P. (2).

Bufo andersoni, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—In Pakistan, fig., Mertens, R. (3).

Bufo arenarum, on dorsal glands; paratoid figd., Adam, H. (1).—Mobility of sperm, Astrada, J. J. (1).—On the skin, Astrada, J. J. (3).—Distribution and common name, Barran, E. F. & Freiberg, M. A.—Action of oestrogens

on the testicule, Bidder's organ and suprarenals, **Burgos, M. H.**—Ecology and distribution in Argentine; preyed on by *Lepidobatrachus asper*, fig., **Cei, J. M.**—Heart beat under electrical stimuli, **D'Espanes, E. M.**—Action of β Angelica-lactone on the heart, **Espanes, E. M. de.**—Action of strophantine and digitoxine on isolated heart, **Gilbert, P., Puppo, A. & Duomarco, J. L.**—Gonadotrophin effect on spermiation, **Houssay, B. A., Penhos, J. C. & Burgos, M. H.**—Effect of aminopterin on ovulation and oviduct secretion, **Penhos, J. C. (2).**—Seasonal variation in spermiation by the chorionic gonadotrophin, **Penhos, J. C., Cornfield, J. & Cordero Funes, J. R.**—Rôle of peripheral nervous system in colour changes, **Stoppani, A. O. M., Pieroni, P. F. & Murray, A. J.**—Temperature preference 30–38° C, **Strübing, H.**—Effect of dessication on the substance Gomori-positive of the neurohypophysis, **Tramezzani, J. H. & Uranga, J.**

Bufo asper, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**

Bufo biporcatus philippinus, from the Philippines. Discussion on status; note on ecology and geographic variation of species; map of range, **Inger, R. F. (1).**

Bufo boreas, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—*B. b. boreas*, from Multnomah County, Oregon, **Burns, D. M.**—Pattern of movement, **Carpenter, C. C.**—Common up to 7000 ft. in Crater Lake National Park, S. Oregon, **Farner, D. S. & Kezer, J.**—From 4600 ft. on Forbidden Plateau, Vancouver Island, **Hardy, G. A.**

Bufo bufo, appearance of liver glycogen during development, **Beaumont, A.**—Olfactory organ, fig.; development of the eye, **Brien, P.**—Note on diet, **Brüge, H.**—Experimental induction of supernumerary limbs, **Dei, L.**—Histochemical study of polysaccharides, **Gerzeli, G.**—Histochemical study of acid polysaccharides, **Ghiara, F.**—Homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—Note on distribution of subspecies *bufo* and *gredosicola*, **Herter, K. & W.**—Action of injected poison of *Bufo formosus* on sperm movement, **Hinglais, H.**

& **Hinglais, M.**—Breeding dates, development of spawn, **Hoefke, R. (1).**—Notes, **Leutscher, A. (1).**—On toxicity of amino acids in the larvae, **Livrea, G. & Collotti, G.**—Study of cytoplasmic granules of erythrocytes, **Nagatani, Y.**—Transplants between normal and hybrid (\times *B. viridis*) larvae, **Natale, L. D.**—Life span 36 years, **Nigrelli, R. F.**—Relations of symmetry in supernumerary limbs, **Perri, T. (1).**—Biochemical surroundings suited to development of *B. viridis* tissues, **Perri, T. (2).**—Induction of supernumerary limbs, **Perri, T. (3).**—Embryonic correlation between nervous system and limbs, **Perri, T. (4).**—Experiments with embryonic transplants in study of correlation between nervous system and limbs, **Perri, T. (5).**—Potency of neural crest, **Raunich, L.**—A review on lens regeneration, **Reyer, R. W. (1).**—Vision and orientation of pupil, **Schneider, D.**—Temperature preference in *b. bufo* and *b. spinosus*, **Strübing, H.**—Poison used on suprarenals of rats, **Tuchmann-Duplessis, H. & Mercier-Parot, L.**—Common in Provence, **Vanden Eeckhoudt, J. P.**—Organogenesis of the crystalline lens, **Vincentis, M. de.**—On frequency distribution in east central Sweden, **Walden, H. W.**—Dynamics of limb growth; effect of hormones, **Wurmbach, H. (1).**—Hormonal control of growth and development in the tadpole, **Wurmbach, H. (2).**—*B. b. bufo*, observations on migration in Dorset, **Moore, H. J.**—Influence of water, light and the pituitary upon the pigmentary system, **Rowlands, A.**—On occurrence in Burgenland, Austria, **Sochurek, E. (2).**—*B. b. formosus*, hatching mechanism; structure of jelly coat, **Kobayashi, H. (1).**—Effect of thiourea on hatching, **Kobayashi, H. (2).**—Effect of chemicals and temperature on egg jelly, **Kobayashi, H. (3).**—Relation between CO₂ production and jelly swelling, **Kobayashi, H. (4).**—Effect of DOCA on thyroid and metamorphosis, **Kobayashi, H. & Okubo, K.**—Relation between oedema and abnormalities of excretory organs in tadpoles, **Muto, Y. & Ozaki, M.**—Kidney structure; relation between canaliculi and sperm path, figs., **Yoshioka, S.**—*B. b. spinosus*, on Elba, **Sochurek, E. (1).**

Bufo calamita, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—Distri-

bution in Europe; map, photo., **Herter, K. & W.**—Breeding dates; development of spawn, **Hoeike, R. (1)**.—Notes, fig., **Leutscher, A. (1)**.—General note; photo., **Lierath, W. (2)**.—Temperature preference, **Strübing, H.**—Dynamics of limb growth; effect of hormones, **Wurmbach, H. (1)**.—Effect of hormones on growing limb bones, **Wurmbach, H. (3)**.

Bufo camerunensis, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**

Bufo carens, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**

Bufo cavifrons, from Volcan San Martin, Veracruz, **Darling, D. M. & Smith, H. M.**

Bufo claviger, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**

Bufo coccifer, from Nueva Segovia, 1200 ft., Nicaragua. Note on stomach contents, **Brattstrom, B. H. & Howell, T. R.**—From S.E. highlands of Guatemala, **Stuart, L. C. (2)**.—Of Guatemala: note on affinity with *B. ibarra*, **Stuart, L. C. (3)**.

Bufo cognatus, decrease in numbers in C. Oklahoma, **Bragg, A. N. (1)**.—Effect of temperature on development of labial teeth and mandible, figs., **Bresler, J.**—Population study of New Mexico sympatric species; isolating mechanisms discussed, **Lowe, C. H., Jr. (1)**.—Range extension in Sonora, Mexico, **Savage, J. M. (2)**.

Bufo crucifer, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—Common in Federal District, Brazil; note on voice; figs., **Lutz, B.**

Bufo debilis, key to subspecies *d. insidiator*, *d. retiformis*, *d. debilis*; distribution map. Discussion of evolution and affinities, **Savage, J. M. (1)**.—From Sonora, Mexico, **Savage, J. M. (2)**.—*B. d. insidiator*, population study of sympatric species in New Mexico; isolating mechanisms discussed, **Lowe, C. H., Jr. (1)**.

Bufo dodsoni, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**

Bufo fenoulheti damaranus sp. nov., Ombujomatamba, S. of Waterberg, Damaraland, S.W. Africa p. 9, fig. Senckenbergiana Biologica 35, 1-2, 1954, **Mertens, R. (1)**.

Bufo fowleri, abundant around Henderson, Tennessee, **Endsley, J. R.**—Chorioid plexus, fig., **Hilton, W. A.**—Study of intensity of isolation between species from different geographical regions; crosses with *B. americanus*, **Volpe, E. P. (2)**.

Bufo funereus, from Luimbale, Angola, **Laurent, R. F. (4)**.

Bufo granulatus, distribution and common name, **Barran, E. F. & Freiberg, M. A.**—Homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—*B. g. d'orbigny*, occurrence in the Argentine, **Cei, J. M.**

Bufo haematiticus, from Zelaya, Nicaragua. Note on stomach contents, **Brattstrom, B. H. & Howell, T. R.**—Homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**

Bufo hemiophrys, analysis of stomach contents, **Moore, J. E. & Strickland, E. H.**

Bufo horribilis, from near Jorullo Volcano, Mexico, **Duellman, W. E. (3)**.—Common in Michoacan, Mexico, **Peters, J. A.**

Bufo ibarra, sp. nov. from 1725 m. Aserradero, San Lorenzo, 12 kms. N. of Jalapa, Guatemala, of the *B. coccifer* complex, p. 162 Proc. biol. Soc. Wash. 67 1954, **Stuart, L. C. (3)**.—Elevation records in S.E. highlands, Guatemala; note on breeding times, **Stuart, L. C. (2)**.

Bufo kelloggi, redescribed: Note on affinities with *B. debilis* complex; distribution map, **Savage, J. M. (1)**.

Bufo leptopus, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—Referred to genus *Ansonia*, **Inger, R. F. (1)**.

Bufo luetkeni, from Jutiapa and Santa Catarina, S.E. highlands, Guatemala; relationship with *B. valliceps* discussed; note on habitat, **Stuart, L. C. (2)**.

Bufo marinus, general note; specimen of 9 inches from British Guiana, **Bogert, C. M. (1)**.—Homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—Death from

moniliasis, Hill, W. C. O.—From Philip-pines. Redescribed, note on sex dimorphism, head figd., Inger, R. F. (1).—Analysis of poison by paper chromatography, Pereira, J. R.—Common in S.E. highlands of Guatemala, to 1,400 m., Stuart, L. C. (2).—*B. m. ictericus*, rare in Federal District, Brazil; note on voice; figs., Lutz, B.—*B. m. marinus*, from El Recreo, Nicaragua, Brattstrom, B. H. & Howell, T. R.

Bufo marmoreus, from La Playa, Jorullo, Mexico, Duellman, W. E. (3).—Confined to lowlands in Michoacan, Mexico. Note on breeding habits, Peters, J. A.

Bufo mauritanicus, from the littoral near Bougie, Algeria. Tadpoles may inhabit saline water, Bellairs, A. d'A. & Shute, C. C. D.—Homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—From S. Morocco, Panousse, J. B.—Temperature preference, Strübing, H.

Bufo mazatlanensis, note on distribution; range extension in Sonora, Mexico, Savage, J. M. (2).—*B. m. mazatlanensis*, range extended to N. Sonora, Mexico, Langebartel, D. A. & Smith, H. M.

Bufo melanostictus, bovine pregnancy test by faecal solutions, Bhaduri, J. L., Chakravarti, R. N. & Bardhan, N. R.—On evolution of the vertebral column, Brien, P.—Blood parasites, Hill, W. C. O.—Sex reversal in males, Johri, L. N.—Histology of the urinogenital organs of a hermaphrodite, Mitra, B.—Seasonal variations in Müllerian ducts; histology, Rudra, J. N.—Note on occurrence in Malaya, Tweedie, M. W. F. & Harrison, J. L.

Bufo muelleri, referred to genus *Ansonia*, Inger, R. F. (1).

Bufo nayaritensis, considered a subspecies of *B. mazatlanensis*, Langebartel, D. A. & Smith, H. M.

Bufo occidentalis, first record from Michoacan, Mexico; confined to the Sierra de Coalcoman above 3000 ft., Peters, J. A.

Bufo paracnemis, geographical distribution and common name, Barran, E. F. & Freiburg, M. A.—General notes; graph of warning vibration, Cei, J. M.

Bufo peltocephalus, note on colour variation, Menne, H. A. L. (2).

Bufo penangensis, referred to genus *Ansonia*, Inger, R. F. (1).

Bufo pentoni, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Bufo punctatus, range extended eastwards in Texas, Baldauf, R. J. & Lord, Jr., R. D.—Mating call, Blair, W. F. & Pettus, D.—General note on habits, Bogert, C. M. (1).—Note on occurrence in the Arizona cactus forest, Howes, P. G.—From Sonora, Mexico, Langebartel, D. A. & Smith, H. M.

Bufo quadriporcatus, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Bufo quercicus, note on call and eggs, Bogert, C. M. (1).—Common on Harkers Island, between Shackleford Banks and mainland, N. Carolina, Engels, W. L.—Diet and economic value, Hamilton, W. J.

Bufo raddi, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Bufo regularis, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—Experiment on homing instinct, Jordan, H. D.—Larval development, figs., Lamotte, M. & Zuber-Vogeli, M. (1).—From Angola, Laurent, R. F. (4).—*B. r. regularis*, from Northern Frontier Division, Kenya, Battersby, J. C.—*B. sachalinensis*, chromosomes at metaphase, fig., Brien, P.

Bufo simus, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Bufo spinulifer, note on skin glands, Adam, H. (1).

Bufo spinulosus, action of Li and SCN-ions on morphogenesis, Badinez, S. O., Carrasco, C. E. & Manriquez, M. C.—Ecology and distribution in Argentine; photo. of habitat, Cei, J. M.—Homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Bufo superciliaris, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Bufo terrestris, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—*B. t. americanus*, from Prince Edward Island, E. Canada, Bleakney, S. (1).—Note on early appearance in April, Bogert, C. M. (1).—Variation in labial formula with development, Bresler, J. & Bragg, A. N.—Diet and economic value, Hamilton, W. J.—From Unami valley, S.E. Pennsylvania, Hudson, R. G.—*B. t. charlesmithi*, sp. nov. from 1-8 miles south, 7 miles east of Norman, Cleveland County, Oklahoma, p. 247, figs.; note on small size, ventral coloration, voice and eggs; distribution map, Wassmann J. Biol. 12 2 1954, Bragg, A. N. (4).—Metamorphic aggregation witnessed in LeFlore County, Oklahoma, Bragg, A. N. (2).—*B. t. copei*, common in central Labrador; extension of range, Backus, E. H.—Range extended; summary of records, Bleakney, S. (1).—*B. t. terrestris*, note on homing instinct, Bogert, C. M. (1).—Diet and economic value, Hamilton, W. J.

Bufo tuberculatus, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Bufo typhomius, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Bufo valliceps, from Nicaragua. Notes on affinity with *B. coccifer* and stomach contents, Brattstrom, B. H. & Howell, T. R.—Note on haemoglobin, Brien, P.—From San Luis Potosi, E. Mexico, Darling, D. M. & Smith, H. M.—Homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—Abundant in Louisiana (Lafayette, Terrebonne and Vermilion Parishes), Liner, E. A.—From below 1,000 m. at eastern edge of S.E. highlands of Guatemala, Stuart, L. C. (2).

Bufo viridis, olfactory organ, fig., Brien, P.—Homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—Distribution in Europe; map, Hertter, K. & W.—Breeding dates; development of spawn, Hoefke, R. (1).—In Netherlands; observations on habits, Horst, J. T.—Experiments with transplants between normal and hybrid ($\times B. vulgaris$) larvae, Natale, L. D.—Hybridisation experiments; biochemical surroundings not suited to *B. vulgaris* tissues, Perri, T.

(2).—Potency of neural crest, Raunich, L.—Lens regeneration: a review, Reyer, R. W. (1).—Temperature preference in *v. viridis* and *v. arabicus*, Strübing, H.—Effect of testosterone on Bidder's organ, Talluri, M. V. & Padoa, E.—Dynamics of limb growth; action of hormones, Wurmbach, H. (1).—Experimental hormonal control of growth and development in the tadpole, Wurmbach, H. (2).—Effect of hormones on growing limb bones, Wurmbach, H. (3).—*B. v. viridis*, general notes; photo., Lierath, W. (2).—On Elba, Sochurek, E. (1).—In Burgenland, Austria, Sochurek, E. (2).

Bufo vittatus, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Bufo woodhousii, chorioid plexus, fig., Hilton, W. A.—*B. w. fowleri*, common on Shackleford Banks, N. Carolina, Engels, W. L.—Larval development; diagnostic characters and figs. to distinguish from *Bufo woodhousei fowleri*, Gosner, K. L. & Black, I. H.—Diet and economic value, Hamilton, W. J.—From Unami valley, S.E. Pennsylvania, Hudson, R. G.—Occurrence in Louisiana, Liner, E. A.—*B. w. woodhousii*, decrease in numbers in C. Oklahoma, Bragg, A. N. (1).—From Pleistocene deposit, Kansas, Thien, J. A.

[*Bufo vulgaris* ♀ \times *Bufo viridis* ♂], triploid hybrid, Hertwig, G., Ruhland, G. & Weiss, I.

Nectophryne afra, on the otic element and presence of Bidder's organ, Griffiths, I.—*N. hosi*, on the otic element and condition of the temporal region, Griffiths, I.

Pedostibes guentheri, *P. hosi*, *P. signata*, investigation into the otic element and depressor mandibulae muscle. Remarks on presence of Bidder's organ in old individuals and relationship with *Nectophryne*, Griffiths, I.

Rhinophrynus dorsalis, feeds mainly on termites, Bogert, C. M. (1).—Note on occurrence in Michoacan, Mexico, Peters, J. A.

DENDROBATIDAE

Dendrobates, note on habits of male in transporting young, Bogert, C. M. (1).—Structure of sternum, Brien, P.—*D. tinctorius*, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Phyllobates, note on habits of male in transporting young, **Bogert, C. M.** (1).—*P. alboguttatus*, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—*P. latinasus*, absence of otic element; relationship of the depressor mandibulae muscle, **Griffiths, I.**—*P. trinitatis*, note on aggressive territoriality, **Test, F. H.**—*P. verruculatus*, discussion of status and affinity with *Syrrhophus*, **Firschein, I. L.**

DISCOGLOSSIDAE

Note on the structure of sternum, excretory organ, chromosomes, **Brien, P.**

Alytes, urino-genital system, fig., **Brien, P.**—*A. cisternasi*, *A. obstetricans*, temperature preference, **Strübing, H.**—*A. obstetricans*, note on courtship and egg laying habits; male's part in caring for the young, **Bogert, C. M.** (1).—Structure of visual cells, **Carasso, N.**—Experimental neoteny, **Delsol, M.** (1).—Effect of benzoate of dihydrofolliculine on the evolution of Müller's canal, **Delsol, M.** (2).—On breeding habits, **Oyen, W. G. v.**—From the Camargue, France, **Petit, G. & Schachter, D.**—Action of chemicals on metamorphosis, **Roth, P. C. J.** (2).—Note on occurrence in Provencal, **Vanden Eeckhoudt, J. P.**

Barbourula busuangensis, from Busuanga, Philippine Islands. Intermediate between *Bombina* and *Discoglossus*; note on affinities, ecology and sex dimorphism. Hand and foot figd., **Inger, R. F.** (1).

Bombina, development, structure and origin of sternum and vertebral column, urino-genital system, **Brien, P.**—*B. bombina*, on food absorption and breeding habits, **Birkenmeier, E.**—Experimental tagging, **Dely, O. G.**—*B. bombina*, *B. variegata*, on the homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—*B. bombina*, distribution in Lower Saxony, **Rabeler, W.**—Lens regeneration—a review, **Reyer, R. W.** (1).—*B. bombina*; *B. variegata variegata*, on occurrence in Burgenland, Austria, **Sochurek, E.** (2).—Temperature preference in *B. v. variegata*, *B. v. scabra*, *B. bombina*, **Strübing, H.**—*B. igneus*, breeding dates; development of spawn, **Hoefke, R.** (1).—*B. pachypus*, xeno-

plastic transplantations in study on adhesive disk, **Chen, P. S. & Baltzer, F.**—Implanted with *Triton alpestris*; study of growth rates, **Eymann, H. & Roth, H.**—Development of horn in the mouth of the larva, **Henzen, W.**—Breeding dates; development of spawn, **Hoefke, R.** (1).—*B. variegata*, vision and rotational movements of eye, **Schneider, D.**—*B. v. variegata*, on food absorption and breeding habits, **Birkenmeier, E.**

Discoglossus pictus, appearance of liver glycogen during development, **Beaumont, A.**—Structure and development of pro- and meso-nephros, fig., **Brien, P.**—Experimental induction of supernumerary limbs, **Dei, L.**—Experimental neoteny, **Delsol, M.** (1).—Xenoplastic transplantations of limb territory to *Triton cristatus*, **Durante, M.**—Action of sex hormones on gonad and sex characters, **Gallien, L.** (4).—Histochemical study of polysaccharides, **Gerzeli, G.**—Histochemical study of acid polysaccharides, **Ghiara, F.**—On the otic element and associated depressor mandibulae muscle, **Griffiths, I.**—Relations of symmetry in supernumerary limbs, **Perri, T.** (1).—Induction of supernumerary limbs, **Perri, T. & Notarnicola, L.**—A review of lens regeneration, **Reyer, R. W.** (1).—Organogenesis of the crystalline lens, **Vincentiis, M. de.**—*D. p. pictus*, *D. p. sardus*, temperature preference, **Strübing, H.**—†Aff. *Discoglossus troscheli* in L. Pliocene of Vienna District, **Papp, A. & Thenius, E.**

HYLIDAE

Chromosomes, **Brien, P.**—Distinguishing characters of New Jersey larvae, **Gosner, J. & Black, I. H.**—Key to four S.W. Australian species, **Main, A. R.**

Acris, remarks on the status and range of *crepitans* and *gryllus*. First record of occurrence of *crepitans* in Florida, **Neill, W. T.** (2).—*Acris*? *Ilia* in Kansas Pleistocene, **Tihen, J. A.**—*A. crepitans*, in S.E. Michigan, **Duellman, W. E.** (2).—*A. gryllus*, note on call, **Bogert, C. M.** (1).—Common in marshes at Henderson, Tennessee, **Endsley, J. R.**—*A. g. crepitans*, local variant in east Texas, **Cagle, F. R.** (1).—From Unami valley, S.E. Pennsylvania, **Hudson, R. G.**—Common in fresh water in Louisiana, **Liner, E. A.**

Acrotytes inflata, first record of occurrence in Michoacan, Mexico, **Peters, J. A.**

Agalychnis dacnicolor, from Michoacan, Mexico. Note on ecology and breeding times, **Peters, J. A.**—*A. moreletii*, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**

Amphodius luteolus (= *Lophiohyla piperata*), occurs on coastal scrub of Espirito Santo and S. Bahia; absent from Federal District, error in type locality, **Lutz, B.**

Anoiheca coronata, from Volcan San Martin, Veracruz; photo., **Darling, D. M. & Smith, H. M.**—Tadpole feeds on frog eggs; description and figs. of tadpole, figs. of adult, **Taylor, E. H. (1).**

Centrolenella eurygnatha, of Federal District, Brazil. Note on habits, habitat and call; fig., **Lutz, B.**

Corythomantis (Aparasphenodon) brunoi bromeliad dweller in coastal scrub of F.D., Brazil; note on call; figs., **Lutz, B.**

Diaglena reticulata, first record of occurrence in Michoacan, Mexico, **Peters, J. A.**

Flectonotus goeldii, from Federal District Brazil; note on habits (bromeliad breeder), habitat and call, figs., **Lutz, B.**

Gastrotheca, note on egg laying and parental habits, **Bogert, C. M. (1).**—*G. bolivianum*, *G. marsupiatum*, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**

Hyla, note on Müllerian duct, **Brien, P.**—*Hyla* sp. from Negros, first Philippine Island record; hand and foot figd., **Inger, B. F. (1).**

Hyla adelaidensis, description, habitat, fig.; range in S.W. Australia, **Main, A. R.**

Hyla albofrenata, bromeliad dweller in Federal District, Brazil; montane, sylvan; note on call; fig., **Lutz, B.**

Hyla albomarginata, of Federal District, Brazil; note on call; figs., **Lutz, B.**

Hyla alvaradoi, from Costa Rica, **Taylor, E. H. (2).**

Hyla anceps, of the plains in Federal District, Brazil; note on call; figs., **Lutz, B.**

Hyla arborea, fig., **Adam, H. (1).**—Experimental induction of supernumerary limbs, **Dei, L.**—Histochemical study of polysaccharides, **Gerzeli, G.**—Breeding dates; development of spawning, **Hoefke, R. (1).**—Study of cytoplasmic granules of erythrocytes, **Nagatani, Y.**—Relations of symmetry in supernumerary limbs, **Perri, T. (1).**—A review of lens regeneration, **Reyer, R. W. (1).**—Vision and orientation of eye, **Schneider, D.**—Temperature preference in *a. arborea*, *a. savignyi*, *a. meridionalis*, **Strübing, H.**—*H. a. arborea*, on voice photo., **Kousnetzoff, W.**—*H. a. arborea*, *H. a. meridionalis* from the Camargue, France, **Petit, G. & Schachter, D.**—*H. a. arborea*, common in Burgenland, Austria, **Sochurek, E. (2).**—*H. a. meridionalis*, in captivity: colour plates, **Stemmler, O.**—Common in Provencal photo., **Vanden Eeckhoudt, J. P.**—*H. a. savignyi*, on Elba, **Sochurek, E. (1).**

Hyla arenicolor, lives in boulders strewn canyons, **Bogert, C. M. (1).**

Hyla aurea, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—Description, habitat range in S.W. Australia; fig., **Main, A. R.**—Genetic study of geographic variation: frogs of E-C New South Wales belong to different genetic species from those in S.W. Australia, **Moore, J. A.**

Hyla baudini, wide distribution up to 1,400 m. in S.E. highlands, Guatemala, **Stuart, L. C. (2).**

Hyla bipunctata, of the plains in Federal District, Brazil; note on call; figs., **Lutz, B.**

Hyla boulengeri, from E. & W. Costa Rica, **Taylor, E. H. (2).**

Hyla caerulea, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—Death from tuberculosis, **Hill, W. C. O.**

Hyla cinerea, assay of melanophore tropic potency of ACTH, **Edgren, B. A. (1).**—Food and feeding habits, **Kilby, J. D.**—*H. c. cinerea*, very common in Lafayette and Terrebonne Parishes, Louisiana, **Liner, E. A.**

Hyla circumdata, habitat in Federal District, Brazil; voice; figs., **Lutz, B.**

Hyla corticalis, appears to be extinct in F.D., Brazil, Lutz, B.

Hyla craspedospila, Federal District Brazil record doubtful, Lutz, B.

Hyla crepitans, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Hyla crucifer, first New England frog to appear in the spring, Bogert, C. M. (1).—From Henderson, Tennessee, Endsley, J. R.—From New Hanover County, N. Carolina, Funderburg, J. B.—Temperature preference, Strübing, H.—*H. c. crucifer*, common on Prince Edward Island; range extensions in E. Canada, Bleakney, S. (1).—From marshy habitat in Unami valley, S.E. Pennsylvania, Hudson, R. G.—Occurrence and breeding dates in Louisiana, Liner, E. A.

Hyla cuspidata, habitat in Federal District, Brazil; note on call; fig., Lutz, B.

Hyla cyclorhynchus, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—Description, habitat, range in S.W. Australia, Main, A. R.

Hyla decipiens, from Federal District, Brazil; note on breeding habits, habitat and call; fig., Lutz, B.

Hyla dominicensis, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Hyla elongata, record from Federal District, Brazil erroneous, Lutz, B.

Hyla euthysanota, referred to *Ptychohyla*, Stuart, L. C. (3).

Hyla faber, note on habitat in Federal District, Brazil; figs., Lutz, B.

Hyla femoralis, chorioid plexus, fig., Hilton, W. A.

Hyla fuscomarginata, lowland form in Federal District, Brazil; note on call; fig., Lutz, B.

Hyla fuscovaria, habits and habitat in Federal District, Brazil; call; fig., Lutz, B.

Hyla geographica, of Federal District, Brazil; note on call; figs., Lutz, B.

Hyla goeldi, from the Argentine; re-description and figs., Freiberg, M. A. (2).—Transferred to *Flectonotus*, Lutz, B.

Hyla gratiosa, from New Hanover County, N. Carolina, Funderburg, J. B.—Chorioid plexus, fig., Hilton, W. A.—From 1920 ft. in Cumberland Plateau Province, Georgia; range extended, Martof, B.

Hyla humilis sp. nov., Baixada Fluminense, Federal District, Brazil. Related to *H. catherinae*. Mem. Inst. Osw. Cruz 52 1 1954 p. 160 figs., Lutz, B.

Hyla infrafronata, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Hyla langsdorffi, of the plains in Federal District, Brazil; figs., Lutz, B.

Hyla leucophyllata, occurrence in Federal District, Brazil; note on call; fig., Lutz, B.

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Hyla maxima, photograph, Menne, H. A. L. (1).

Hyla microcephala martini, from eastern fringe of S.E. highlands of Guatemala, Stuart, L. C. (2).

Hyla minuta, widespread in Federal District, Brazil; note on call; fig., Lutz, B.

Hyla miotympanum, description of tadpoles from San Luis Potosi; mouthparts figd. Similarity to *Smilisca baudini*, Darling, D. M. & Smith, H. M.

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Hyla moraviaensis, from Costa Rica, Taylor, E. H. (2).

Hyla nasica, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Hyla nigrita, chorioid plexus, fig., Hilton, W. A.

Hyla ocularis, note on call of Midget Tree Frog, Bogert, C. M. (1).

Hyla perpusilla, from Federal District, Brazil. Bromeliad dweller; note on habits and voice, figs., Lutz, B.

Hyla phaeocrypta, common in W. Tennessee, Endsley, J. R.—Description of eggs and tadpoles (fig. of mouth parts); comparison with *H. versicolor*,

Hellman, E. E.—*H. p. phaeocrypta*, distribution in Gulf drainage area; *p. ogechiensis*, distribution in Atlantic drainage area. Distinguishing characters redefined, **Neill, W. T. (2).**

Hyla phaeota, from Zelaya, Nicaragua, **Brattstrom, B. H. & Howell, T. R.**—Homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**

Hyla polytaenia, Federal District Brazil record doubtful, **Lutz, B.**

Hyla raddiana, distribution and common name, **Barran, E. F. & Freiberg, M. A.**—Notes on natural history and range, **Cei, J. M.**—In captivity; notes on food, call, reproduction and characters, photo., **Iersel, R. v. (2).**—Temperature preference, **Strübing, H.**

Hyla regilla, from Multnomah County, Oregon, **Burns, D. M.**—Effect of sucrose immersion on pituitary development, **Driscoll, W. T.**—Common up to 7000 ft. in Crater Lake National Park, S. Oregon, **Farner, D. S. & Kezer, J.**—Common on Forbidden Plateau, Vancouver Island, **Hardy, G. A.**—Chorioid plexus, fig., **Hilton, W. A.**—Note on cultivation, photo., **Oeser, R. (1).**—Interaction between dead dorsal lip implants and presumptive ectoderm, **Smith, A. E. S. & Schechtman, A. M.**—From Contra Costa County, California, **Stebbins, R. C.**—Temperature preference, **Strübing, H.**

Hyla richardi Taylor (non Baird), name preoccupied; renamed *richardtaylori*, nov. nom., pl., **Taylor, E. H. (2).**

Hyla robertmertensi, from Jutiapa, S.E. highlands, Guatemala, **Stuart, L. C. (2).**

Hyla rosenbergi, first record from Costa Rica; northwesternmost limit. Redescription, pl., fig. of pollical spine, **Taylor, E. H. (2).**

Hyla rozellae, referred to *Ptychohyla*, **Stuart, L. C. (3).**

Hyla rubella, description, habitat, range in S.W. Australia, **Main, A. R.**

Hyla rubra, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**

Hyla senicula, a lowland species in Federal District, Brazil; fig., **Lutz, B.**

Hyla septentrionalis, general note, **Menne, H. A. L. (2).**—*H. s. brunnea*, identification of Hans Sloane's record from Jamaica, **Ahrenfeldt, R. H.**

Hyla smithi, from La Playa, Jorullo, Mexico, **Duellman, W. E. (3).**—From Michoacan, Mexico; note on ecology and breeding times, **Peters, J. A.**

Hyla spegazzini, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**

Hyla spinipollex, referred to *Ptychohyla*, **Stuart, L. C. (3).**

Hyla squirella, habitat on Shackleford Banks, N. Carolina, **Engels, W. L.**—Chorioid plexus, fig., **Hilton, W. A.**—Occurrence in Louisiana; common at edge of marshes, **Liner, E. A.**

Hyla staufferi, from Veracruz 39 miles S. Tampico, Tamaulipas, **Darling, D. M. & Smith, H. M.**—From below 1,500 m. in S.E. highlands of Guatemala; note on habits, **Stuart, L. C. (2).**—First record from Costa Rica, pl., **Taylor, E. H. (2).**

Hyla taurina, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**

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Hyla versicolor, factors controlling colour change, **Edgren, R. A. (2).**—Description of eggs and tadpole; comparison with *H. phaeocrypta*, **Hellman, R. E.**—Death from inanition in zoo, **Hill, W. C. O.**—Life span 7 years, **Nigrelli, R. F.**—*H. v. versicolor*, range in E. Canada, **Bleakney, S. (1).**—Common in W. Tennessee, **Endsley, J. R.**—Common in Louisiana, **Liner, E. A.**—Breeding dates and habitat in S. Carolina, **Quinby, J. A. (1).**

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Nototrema monticola, note on reproduction, Brien, P.

Nyctimystes loveridgei, sp. nov. from a small stream near Taburi, 2 mls. S.E. of Rouna Falls, Papua, p. 83, fig., Copeia 1954, Neill, W. T. (1).—*N. papua*, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

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Plectrohyla, key to Mexican and Guatemalan species. The following described:—*P. guatemalensis*: *P. avia*: *P. sagorum*: intermediates between *P. matudai brachycephala* and *P. matudai matudai*: *P. lacertosa*, sp. nov. from Region de Soconusco, Chiapas, Mexico, p. 64, Herpetologica 10 1954. Note on prepollex; figs. of prepollex of *P. quecchi* and *P. izil*, Bumzahem, C. B. & Smith, H. M.—*P. cotzicensis*, from 2,500 m. in S.E. highlands of Guatemala, Stuart, L. C. (2).—*P. guatemalensis*, from S.E. highlands of Guatemala; in association with *P. cotzicensis*, Stuart, L. C. (2).—*P. matudai*, tadpoles taken in S.E. highlands of Guatemala, Stuart, L. C. (2).

Pseudacris clarkii, *P. streckeri*, decrease in numbers in C. Oklahoma, Bragg, A. N. (1).—*P. nigrita*, chorioid plexus, fig., Hilton, W. A.—Analysis of stomach contents, Moore, J. E. & Strickland, E. H.—*P. n. feriarum*, from Unami valley, S.E. Pennsylvania; note on habitat, Hudson, R. G.—Should be deleted from Florida's herpetofaunal list. Records probably based on *P. cf. brachyphona*.—*P. brimleyi*, N. Georgia

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Pterohyla fodiens, habitat in Sonora, Mexico; extension of range, Savage, J. M. (2).

Ptychohyla, note on status and presence of lateroventral glands, Stuart, L. C. (3).—*P. schmidtorum* sp. nov. from Finca El Porvenir, 17 kms. W. of San Marcos, Guatemala, p. 170, Proc. biol. Soc. Wash. 67 1954, Stuart, L. C. (3).—*P. spinipollex*, tadpoles found in S.E. highlands of Guatemala, Stuart, L. C. (2).

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Sphoerohyla nom. nov. *Sphoerohynchus* preoccupied. *S. planicola*, from Federal District, Brazil; note on habits, habitat and call, fig., Lutz, B.

Trachycephalus nigromaculatus, of coastal plains Federal District, Brazil. Note on phragmotic habit as protection against prey, voice; figs., Lutz, B.

Tripurion petastatus, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

HYPEROLIIDAE

References at present retained under RHACOPHORIDAE.

LEIOPELMIDAE see ASCAPHIDAE.

LEPTODACTYLIDAE

Adelotus brevis, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Batrachyla leptopus, from Chile, Schmidt, K. P. (3).

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S. O., Carrasco, C. E. & Manriquez, M. C.—Homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**

Ceratophrys dorsata, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—Should be deleted from fauna of Federal District, Brazil, **Lutz, B.**—*C. ornata*, distribution and common name, **Barran, E. F. & Freiberg, M. A.**—Homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**

Crinia, key to S.W. Australian species; range, description, habitat and figures of the following species:—*rosea*; *georgiana*; *leai*; *signifera*; *glauertia*, **Main, A. R.**—*C. signifera*, study of genetic divergence within the range of the species. Type locality should be restricted to S.E. Australia; recognition of subspecies *montana* and *englishi* not justified. *C. insignifera* sp. nov. Armadale, West Australia p. 71. Erection of species based on genetical considerations. *C. tasmaniensis*, note on probable evolution and status. Amer. Nat. 88 No. 839, 1954, **Moore, J. A.**

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Cyclorana dorsata, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**

Cyclorhampus eleutherodactylus, *C. fuliginosus* from Federal District, Brazil; notes on habits, call, habitat; figs., **Lutz, B.**

Eleutherodactylus, study of evolution of colour pattern in *gossei* group (species included: *gossei*, *nubicola*, *alticola*, *pantoni*, *fuscus*, *andrewsi*, *junori*). Characters, distribution, habits and habitats of species discussed, **Goin, C. J. (2).**—Of Federal District, Brazil. Species recognised:—*binotatus*, *guentheri*, *parvus*; habits; figs., **Lutz, B.**—*E. cavernicola*, sp. nov. from Portland Cave, Clarendon Parish, Jamaica, B.W.I., p. 400, figs.; notes on habits, call and relationship with *E. cundalli*, J. Wash. Acad. Sci. 44 12 1954, **Lynn, W. G.**—*E. dorsoconcolor*, *E. dunni*, *E. rhodopis*, from Volcan San

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Elosia nasus, of Federal District, Brazil. Diurnal, montane; fig., **Lutz, B.**

Engystomops pustulosus, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—From 1,400 m. in Jalapa region of S.E. highlands of Guatemala, **Stuart, L. C. (2).**

? *Eupemphix olfersioides*, generic status uncertain, near to *Sminthillus limbatus*, note on habitat, fig., **Lutz, B.**

Eupsophus, from Chile. Species recognised: *maculatus*, *taeniatus*, *nodosus*, *roseus*, **Schmidt, K. P. (3).**

Glauertia russelli, description, range, habitat and figure, **Main, A. R.**

Helioporus, key to S.W. Australian species; description, range and habitat of the following species:—*wilsmorei*, fig.; *pelobatoides*, fig.; *centralis*, fig.; *australiacus*; *albopunctatus*, fig.; *eyrei*, fig., **Main, A. R.**—*H. inornatus*, sp. nov., from Neechina, W. Australia, related to *H. albopunctatus*, p. 157, W. Australian Naturalist, 4 7 1954, **Lee, A. K. & Main, A. R.**—*H. psammophilus*, sp. nov. from Beechina, W. Australia; related to *H. eyrei*, p. 157, W. Australian Naturalist, 4 7 1954, **Lee, A. K. & Main, A. R.**

Lepidobatrachus asper, general notes, fig., **Cei, J. M.**

Leptodactylus, of Federal District, Brazil. Notes on habits and voice of the following species:—*ocellatus*; *typhoni* = *sibilator*; *mystaceus*; *caliginosus*; *nanus*; figs., **Lutz, B.**—*L. bufonius*, of the Argentine; ecological note, figs., **Cei, J. M.**—*L. chaquensis*, natural history notes, spawn figd., **Cei, J. M.**—*L. fallax*, note on voice, **Menne, H. A. L. (2).**—*L. gracilis*, of the Argentine; general notes on ecology, **Cei, J. M.**—*L. labialis*, from below 1,400 m. on S.E. highlands of Guatemala; note on habits, **Stuart, L. C. (2).**—*L. laticeps*, distribution and vernacular, **Barran, E. F. & Freiberg, M. A.**—Natural history notes; fig., **Cei, J. M.**—*L. melanonotus*, from La Playa, Jorullo, Mexico, **Duellman, W. E. (3).**—Fairly common in lowlands of Michoacan, Mexico, **Peters, J. A.**—From 1,400 m. S.E. highlands, Guatemala; note on breeding season, **Stuart, L. C. (2).**—*L. ocellatus*, on the skin, **Astrada, J. J. (3).**—Distribution and vernacular, **Barran, E. F. & Freiberg, M. A.**—Homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—*L. pentadactylus*, from Zelaya, Nicaragua. Note on stomach contents, **Brattstrom, B. H. & Howell, T. R.**—Of the Argentine, **Cei, J. M.**—*L. quadrivittatus*, from S.W. Costa Rica, pl. Habitat and eggs descr.; *L. labialis* from W. Costa Rica, redescription and plate; *L. bolivianus*, first record from Costa Rica, redescription and plate. Note on eggs, **Taylor, E. H. (2).**—*L. sibilatrix* [*sybilator*], of the Argentine; general ecological notes, **Cei, J. M.**

Litoria, see under *Eleutherodactylus*, **Goin, C. J. (1).**

Limnodynastes dorsalis, description, range, habitat and figure, **Main, A. R.**—*L. dorsalis*, *L. tasmaniensis* (photo.) on frog cultivation, **Oeser, R. (1).**—*L. peroni*, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—*L. peroni*?, from N.W. Tasmania, photo., **Hewer, A. M.**—*L. tasmaniensis*, note on reproduction, **Brien, P.**

Metacrinia nichollsi, description and habitat; range in S.W. Australia; fig., **Main, A. R.**

Microbatrachylus minimus, *M. pygmaeus* from Volcan San Martin, Veracruz, **Darling, D. M. & Smith, H. M.**

Myobatrachus gouldii, description, range, habitat and figure, **Main, A. R.**

Nectophryne, nature of temporal arch, depressor mandibulae muscle and presence of a Bidder's organ indicate transfer to family Bufonidae (which see), **Griffiths, I.**—*N. lighti*, considered a synonym of *Pelophryne brevipes* Peters, **Inger, R. F. (1).**

Oocormus microps, from Federal District, Brazil; note on habits, call, larvae; fig., **Lutz, B.**

Paludicola bresslaui, transferred to *Physalaemus*, **Lutz, B.**

Pelophryne, considered as a Bufonid; species discussed. Philippine species recognised:—*albotaeniata* (description, ecology, sex dimorphism); *brevipes* Peters, includes *Nectophryne lighti* Taylor; taxonomy, ecology, sex dimorphism, hand and foot figd., **Inger, R. F. (1).**—*P. misera*, from 7,800 ft. Mt. Kina Balu, N. Borneo, **Inger, R. F. (2).**

Physalaemus, discussion on status of *P. henseli*, *P. fernandezae* and *P. barbouri*; *P. henseli* includes *P. barbouri*; *P. fernandezae* referred to *Pseudopaludicola falcipes*. Head, foot, shoulder girdle, eggs, embryo and larval mouthparts of *P. henseli* figured, **Barrio, A.**—*P. bresslaui*, from Federal District, Brazil; note on call, figs., **Lutz, B.**—*P. cuvieri*, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—*P. fuscomaculatus*, natural history notes, fig. of spawn, **Cei, J. M.**

Pleurodema, on the otic element and associated muscle in *P. bibroni*, *P. cinerea*, *P. marmorata*, **Griffiths, I.**—*P. bibroni*, macro- and microscopic study of lumbar organ, **Adam, H. (1).**—From Chile, **Schmidt, K. P. (3).**—*P. nebulosa*, natural history notes, spawn figd., **Cei, J. M.**—*P. plebeia*, from Coquimbo, Chile (ident. tent.), **Schmidt, K. P. (3).**

Pseudopaludicola falcipes, includes *P. saltica*, *P. ameghini* and *Physalaemus fernandezae*. Note on reproduction and development of eggs. Head, hand, foot, shoulder girdle, eggs and larval mouthparts figured, **Barrio, A.**

Pseudophryne, key to S.W. Australian species; range, habitat and description of *P. guentheri* (figd.) and *P. occidentalis*, Main, A. R.—*P. bibroni*, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Stombus boiei, from F. D. Brazil; note on habits and call, figs., Lutz, B.

Syrrophus, generic diagnosis and distribution; discussion of evolution and relationship with *Eleutherodactylus*. Species described and discussed:—*S. petrophilus*, sp. nov. Sierra San Miguelito, San Luis Potosi related to *S. smithi*, p. 50: *S. guttilatus*, note on range and affinities: *S. smithi*, note on affinity with *S. campi*: *S. verrucipes*, Copeia 1954, Firschein, I. L.—*S. marnocki*, social patterns in call and clasping, Jameson, D. L.

Telmatobius, on limb development, Brien, P.—Checklist of the species with map showing type localities. Species and subspecies recognised: *niger*; *cine-reus*; *ignavus*; *latirostris*; *brevipes*; *jelski*; *T. rimac*, sp. nov., Rio Blanco, tributary of R. Rimac, Peru, 10,000 ft., p. 278; *walkeri*; *T. sanborni*, sp. nov., Limbani, Puno, Peru, 13,000 ft., p. 280; *inter-medius*; *marmoratus*; *m. pustulosus*; *m. hintoni*; *culeus*; *c. albiventris*; *c. punensis*; *c. parkeri*; *escomeli*; *e. crawfordi*; *e. exsul*; *verrucosus*; *peruvianus*; *simonsi*; *halli*; *oxycephalus*; *hauthali*; *h. schreiteri*; *laevis*; *montanus*, Fieldiana, zool. 34 1954 pp. 277–287, Schmidt, K. P. (2).—*T. hauthali schreiteri*, endocrine condition possible cause of wide variation in size of tadpoles, figs., Pisano, A. & Rengel, D.—*T. schreiteri*, morphology and number of chromosomes in larval forms, Barbieri, F. D. (1).—Instance of heterotypic division in somatic tissue of tail tip, Barbieri, F. D. (2).—Natural history notes; tadpole and young figd., Cei, J. M.

Thoropa, differs from *Eupsophus* in visible tympana and habits. *T. miliaris* and *T. petropolitana*, from Federal District, Brazil; notes on habits and calls, figs., Lutz, B.

Tomodactylus, discussion on status and range, Firschein, I. L.—*T. petersi*, sp. nov. from Coalcoman, Michoacan, Mexico, 3,500 ft., Occ. Pap. Mus. Zool. Univ. Mich. 560 1954 p. 5 figs., Duell-

man, W. E. (3).—*Tomodactylus* sp. from Michoacan, Mexico, Peters, J. A.

MICROHYLIDAE

Diagnosis, geographical distribution of family and sub-family Microhylinae: maps. Key to *Stereocyclops* and *Hypopachus*, Arámburu, A. S. A. de.—Synopsis of the American genera; key, Carvalho, A. L. de.

Arcovomer passarellii, gen. & sp. nov., Duque de Caxias, Estado do Rio de Janeiro, Brazil (genus related to *Hampophryne* and intermediate between *Stereocyclops*—*Hyophryne*—*Ctenophryne* and *Chiasmocleis*). Pectoral girdle and anterior cranial elements figd.; photos, Occ. Pap. Mus. Zool. Univ. Mich. No. 555, 1954, p. 8, Carvalho, A. L. de.

Asterophrys boettgeri, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Chaperina fusca, notes on Philippine specimens, distribution map, Inger, R. F. (1).

Chiasmocleis, note on relationships. Species included *albopunctata*; *leucosticta*; *bicegoi*; *hudsoni*; *ventrimaculata*; *panamensis*; *shudikarensis*; *bassleri*; *centralis*; *schubarti*; *urbanae*, Carvalho, A. L. de.

Ctenophryne, tongue not notched. Remarks on relationship, Carvalho, A. L. de.

Dasypops, revived to include *D. schirchi*; clavicle present but reduced; genus allied to *Dermatonotus*; pectoral girdle figd., Carvalho, A. L. de.

Dermatonotus, to include *Hypopachus mülleri*. Remarks on relationships, Carvalho, A. L. de.

Elachistocleis, remarks on relationships. Included species *E. ovalis* and *E. bicolor*, Carvalho, A. L. de.—*E. ovalis*, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—*E. o. bicolor*, geographical distribution, Freiberg, M. A. (1).

Gastrophryne, revived for *carolinensis carolinensis*; *carolinensis olivacea*; *carolinensis mazatlanensis*; *usta usta*; *usta gadovi*; *elegans*; *pictiventris*, Carvalho, A. L. de.—*G. carolinensis*, from Hender-

son, Tennessee, **Endsley, J. R.**—Habitat on Shackleford Banks, N. Carolina, **Engels, W. L.**

Glossostoma, revived for *Glossostoma aeternum* and *G. aequatoriale*, **Carvalho, A. L. de.**

Hamptophryne, gen. nov., related to *Arcovomer* and *Chiasmocleis*, includes *C. boliviana*, roof of mouth figd., Occ. Pap. Mus. Zool. Univ. Mus. No. 555 1954 p. 7, **Carvalho, A. L. de.**

Hypophryne, gen. & sp. nov., Fazenda Repartimento, Município de Ilheus, Estado da Bahia, Brazil (genus related to *Stereocyclops*, probably intermediate between *Stereocyclops* and *Ctenophryne*); pectoral girdle figd.; Occ. Pap. Mus. Zool. Univ. Mich. No. 555 1954 p. 4 photos., **Carvalho, A. L. de.**

Hypopachus, diagnosis of genus; pectoral girdle, vertebral column and palate figd. Species recognised:—*inguinalis* Cope, *variolosus* (Cope), *oxyrhinus* Blgr., *cuneus* Cope, *barberi* Schmidt, *globulosus* Schmidt, *mülleri* (Boettger). Redescription, distribution and biological note on *mülleri*; map and figs., **Arámburn, A. S. A. de.**—Restricted to Central and North American species (*variolosus*; *inguinalis*; *oxyrhinus*; *cuneus*; *cuneus*; *c. nigroreticulatus*; *barberi*; *globulosus*; *ovis*; *caprimimus*; *alboventer*; *maculatus*; *championi*; *simus*; *aquae*). *H. mülleri*, transferred to *Dermatonotus*; *H. pearsei*, transferred to *Relictivomer*, **Carvalho, A. L. de.**—*H. barberi*, common in oak-pine zone of S.E. highlands of Guatemala; in association with *H. championi* at Guatemala City, **Stuart, L. C. (2).**—*H. championi*, widely distributed between 900 and 1,500 m. in S.E. uplands of Guatemala; note on ecology and relationship with *H. maculatus*, **Stuart, L. C. (1).**—From south-eastern highlands of Guatemala; note on relationship with *H. maculatus*, **Stuart, L. C. (2).**—*H. mülleri*, of Argentine; inhabits termite hills, fig., **Cei, J. M.**—*H. oxyrhinus*, on affinities with *H. ovis* and their distribution in Mexico, **Peters, J. A.**

Kalophrynus pleurostigma, from Mt. Kina Balu, N. Borneo, **Inger, R. F. (2).**—*K. p. pleurostigma*, from Philippines; note on sexual dimorphism; distribution map, **Inger, R. F. (1).**

Kaloula, key to the following Philippine species:—*baleata*, *picta*, *rigida*,

conjuncta. Distribution map, **Inger, R. F. (1).**—*K. baleata*, from the Philippines. Note on geographic variation in size, coloration and shape of terminal phalanges. Subspecies recognised:—*b. baleata*; *b. kalingensis*, **Inger, R. F. (1).**—*K. b. ghoshi* subsp. nov., Little Andaman Island, Teiongare River, Dorian 1 No. 47, 1954, p. 1, 2 figs., **Cherchi, M. A.**—*K. conjuncta*, from the Philippines. Note on inter-island variation in phalanges and sub articular tubercles. The following subspecies are recognised:—*c. negrosensis* (*K. negrosensis* Taylor is a synonym); *c. stickeli* subsp. nov. (p. 443), type locality Carigara, Leyte, Philippine Islands; *c. meridionalis* subsp. nov. (p. 444), type locality Madaum, Tagum Municipality, Davao Province, Mindanao, Philippine Islands, Fieldiana, zool. 33 1954, **Inger, R. F. (1).**—*K. kalingensis*, considered to be a subspecies of *K. baleata*, **Inger, R. F. (1).**—*K. negrosensis* considered a subspecies of *K. conjuncta*, **Inger, R. F. (1).**—*K. picta*, from the Philippines. Notes on sex dimorphism, ecology, call and inter-island variation in size and coloration, fig., **Inger, R. F. (1).**—*K. pulchra*, from Malaya; general notes, **Tweedie, M. W. F. & Harrison, J. L.**—*K. rigida*, from the Philippines; note on sex dimorphism, **Inger, R. F. (1).**

Mantipus ocellatus, figd., **Adam, H. (1).**

Microhyla, American and Asiatic species not considered congeneric, **Carvalho, A. L. de.**—*M. berdmorei*, *M. heymonsi*, *M. ornata*, homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—*M. carolinensis*, call like bleat of a young goat, **Bogert, C. M. (1).**—Chorioid plexus, fig., **Hilton, W. A.**—Temperature preference, **Strübing, H.**—*M. c. carolinensis*, ecological study (habits, diet, reproduction and call considered), **Anderson, P. K.**—Occurrence in Louisiana (Terrebonne and Lafayette Parishes), **Liner, E. A.**—*M. c. olivacea*, decrease in numbers in C. Oklahoma, **Bragg, A. N. (1).**—*Microhyla = Engystoma microps*, of the mountain forest in Federal District, Brazil; burrowing habits; fig., **Lutz, B.**—*M. olivacea* and *M. carolinensis* as distinct species in N.E. Oklahoma, **Lindsay, Jr., H. L.**—*M. olivacea mazatlanensis*, from Sonora, Mexico, **Langebartel, D. A. & Smith,**

H. M.—*M. ornata*, origin, structure and function of thymus gland, Rao, M. A.—*M. rubra*, section through urostyle figured, Brien, P.

Myersiella, gen. nov., related to *Elachistocleis* and *Synapturanus*. Includes *Engystoma subnigrum*; anterior cranial elements figd., Carvalho, A. L. de.

Otophryne, *Omosternum* absent, Carvalho, A. L. de.—Distribution map, Inger, R. F. (1).—*O. annulata*, from Mindanao; note on ecology, Inger, R. F. (1).—*O. biroi*, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Relictivomer, gen. nov., related to *Elachistocleis* and *Dermatonotus*. Included species, *Hypopachus pearsei*, roof of mouth figd., Carvalho, A. L. de.

Stereocyclops, note on probable origin, Carvalho, A. L. de.—*S. incrassatus*, rare in Federal District, Brazil, fig., Lutz, B.

Synapturanus, gen. nov., related to *Elachistocleis* and *Myersiella*. Includes *Engystoma microps*; anterior cranial elements figd., Carvalho, A. L. de.

PELOBATIDAE

Megophrys batuensis, from Mt. Kina Balu, N. Borneo, Inger, R. F. (2).—*M. hasselti*, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—From Philippines, Borneo and Java; redescribed. Note on ecology and geographic variation, Inger, R. F. (1).—From Mt. Kina Balu, N. Borneo, Inger, R. F. (2).—*M. monticola*, distribution map. Key to subspecies:—*m. monticola* from Java: *m. nasuta* from Borneo: *m. ligayae* from Palawan: *m. stejnegeri* from Leyte, Mindanao and Basilan; figs., Inger, R. F. (1).—*M. m. nasuta*, from 4,500 ft. Mt. Kina Balu, N. Borneo, Inger, R. F. (2).—*M. nasuta*, of Malaya; general notes, Tweedie, M. W. F. & Harrison, J. L.

Pelobates, absence of Müllerian duct Brien, P.—*P. cultripes*, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—Recent increase in numbers in the Camargue, France; preyed on by gulls and other birds, Petit, G. & Schachter, D.—*P. cultripes*, *P. f. fuscus*, temperature preference, Strübing, H.—*P. fuscus*,

in Netherlands, Horst, J. T.—*P. fuscus*, from the waters of the Camargue, France, Petit, G. & Schachter, D.—A review of lens regeneration, Reyer, R. W. (1).—Note on pairing times, spawn, development and metamorphosis, Hoefke, R. (1).—*P. f. fuscus*, general note; photo., Lierath, W. (2).—On occurrence in Burgenland, Austria; photo., Sochurek, E. (2).

Pelodytes fuscus, from the Camargue, France, Petit, G. & Schachter, D.—*P. punctatus*, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—Temperature preference, Strübing, H.—Common in coastal region of Provencal, Vanden Eeckhoudt, J. P.

Scaphiopus, see under SCAPHIOPIDAE.

Scutiger sikkimensis, note on gland at corner of mouth, Adam, H. (1).

PIPIDAE

General notes, Bogert, C. M. (1).—Chromosomes, Brien, P.

Pipa americana, on the eye, Brien, P.—*P. pipa*, note on egg laying and feeding habits, Bogert, C. M. (1).—Homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Xenopus, note on the eyelid, Brien, P.—*X. fraseri*, from Dundo, Angola. Note on distribution, Laurent, R. F. (4).—*X. laevis*, structure and development of globular pigment cells in cerebral ventricles, Adam, H. (2).—Effects of lithium on embryonic development, Bäckström, S.—General note, Bogert, C. M. (1).—Hearing organ and vertebra figd., Brien, P.—Histophysiology of the hypophysis, Cordier, R.—Spectral sensitivity, Denton, E. J. & Pirenne, M. H.—Total feminisation by female hormone; action of testosterone on development, Gallien, L. (2).—Action of sex hormones on the gonad and sex characters, figs., Gallien, L. (4).—Development and metamorphosis of the intestine, Geigy, R. & Engelmann, F.—Homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—Influence of sodium bromide on tail regeneration, Jurand, A.—Effect of removal of telencephalon on regeneration of the tail, Jurand, A., Maron, K., Olekiewicz, M. & Skowron, St.—Acceleration of tail regeneration after

separation of telencephalon from rest of brain, Konieczna, B., Pietrzyk, J. & Skowron, A.—Development of endolymphatic organ, figs., Kreiner, J.—Study of optic lobe development by cell and mitotic counts; effect of crushing of optic nerve on mitotic activity, McMurray, V. M.—Effect of excision of telencephalon on tail regeneration in tadpole, Maron, K., Olekiewicz, M. & Skowron, S.—Malformation of the thyroid gland, Morpurgo, G. & Zacchei, A. M.—Life span 15 years, Nigrelli, R. F.—Histochemistry of gonads and adrenal cortical cells; effect of chorionic gonadotropin, Niweliński, J.—Rôle of medulla spinalis on tail regeneration, Roguski, H.—Observations on reproductive behaviour; action of hormones on clasping, Russell, W. M. S.—Development of visual cells and photomechanical movements in larvae, Saxén, L. (1).—Structure and functional development of visual cells, figs., Saxén, L. (2).—Morphology and physiology of sebaceous glands, Spannhof, L. (1).—Development of middle ear and hearing apparatus; figs., Spannhof, L. (2).—Study of the origin of chromatophores and factors controlling their distribution, Stevens, L. C.—Metamorphosis and development of hind limbs; effect of antimitotic substance, Tschumi, P.—Note on growth rate of a population from Western Province; history of the usefulness of the species, Van Wyk, G. F.—Study by electron microscope of basement lamella of larval skin, Weiss, P. & Ferris, W.—*X. mulleri*, histophysiology of the hypophysis, Cordier, R.—*X. tropicalis*, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—From Dundo, Angola, Laurent, R. F. (4).

RANIDAE

Chromosomes, Brien, P.—Distinguish- ing characters of New Jersey larvae, Gosner, J. & Black, I. H.—Study of the genus *Schoutedenella*; key to the subfamily Arthroleptinae, Laurent, R. F. (1).

Arthroleptis, discussion of the genus in Natal and Zululand.—*A. dalenei* and *A. wageri* considered subspecies of *A. wahlbergii*. Key to the following species and subspecies:—*w. wahlbergii*, *w. dalenei*, *w. wageri*, *lawrencei*, sp. nov. from Town Bush, Pietermaritzburg,

Natal, Union of South Africa, p. 97, Ann. Natal Mus. 13 1 1954, Loveridge, A.—*A. bivittatus*, *A. taeniatus*, *A. milleti-horsini*, *A. zimmeri*, tentatively referred to *Schoutedenella*, Laurent, R. F. (1).—*A. boulengeri* Witte, considered a synonym of *A. spinalis*; transferred to genus *Schoutedenella*. Specimens from Dundo, Angola erroneously identified as *A. boulengeri*; should be *Schoutedenella lameerei* (= *A. lameerei* Witte). *Arthroleptis xenochirus*, belongs to genus *Schoutedenella*, Laurent, R. F. (4).

Astylosternus, larval development and characters; buccal region figd. Species described *A. occidentalis* (erroneously referred to in text as *diadematus*. Author's erratum correction in reprints), Lamotte, M. & Zuber-Vogeli, M. (2).—*A. robustus*, general note on use of "hairs" as gills, Bogert, C. M. (1).

Ceratobatrachus guentheri, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Coracodichus, name available for the Arthroleptinae group *Stenodactylus whytei-lönnbergi*, Laurent, R. F. (1).

Cornufer, key to the following Philippine species:—*meyeri*, includes *laticeps* Taylor, hand figd.: *cornutus*, redescribed: *subterrestris*, includes *montanus*: *guentheri*, includes *worcesteri* Stejneger; redescription, note on sex dimorphism and ecology, hand and foot figd.: *polillensis*, transferred from *Philautus*: *hazela*, transferred from *Philautus*; includes *C. rivularis*; note on affinities, ecology and sex dimorphism: *corrugatus*, note on type locality, ecology and sex dimorphism. Map of distribution of the genus, Inger, R. F. (1).

Dicroglossus occipitalis, from Dundo, Angola, Laurent, R. F. (4).

Hylarana albolabris albolabris, from Angola. Remark on range of *a. acutirostris*, Laurent, R. F. (4).

Micrixalus diminutiva, transferred to *Ooeidozyga*, Inger, R. F. (1).—*M. mariae*, sp. nov. from south slope of Mount Balabag, Mantalingajan Range, Palawan, at 850 metres, p. 344, figs., Fieldiana zool. 33 1954, Inger, R. F. (1).

Nyctibatrachus major, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Ooeidozyga baluensis, from Mt. Kina Balu, N. Borneo, Inger, R. F. (2).—*O. diminutiva*, transferred from *Micrixalus*; note on Philippine specimens, Inger, R. F. (1).—*O. laevis*, from the Philippines; redescribed, note on sexual dimorphism, ecology and range; distribution map, Inger, R. F. (1).

Petropedetes natator, larval development and characters described; figs., Lamotte, M. & Zuber-Vogeli, M. (2).—*P. newtoni*, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Phrynobatrachus minutus, from Angola. Tentatively transferred from *Arthroleptis*, Laurent, R. F. (4).—*P. natalensis*, from Angola, Laurent, R. F. (4).

Ptychadaena.—*Rana* (*Ptychadaena*) *aequiplicata*, distinct species. Table of comparisons with *R. longirostris*, Guibé, J. & Lamotte, M.—*P. ansorgei*, from Dundo, Angola, Laurent, R. F. (4).—*P. bibroni*, status and affinities discussed, Laurent, R. F. (4).—*R. bibroni* from Portuguese Guinea, Teixeira da Mota, A.—*Ptychadena chrysogaster*, sp. nov., p. 18, figs., from L. Karago, 2,250 m., Kisenyi Territory, Ruanda; near to *Pt. loveridgei*, *Pt. chrysogaster guibei* subsp. nov., p. 23, Muita, E. Luembe, Angola; affinities with *Pt. ansorgei*: *P. frontalis*, sp. nov., p. 26, figs., from Kiambi, Tanganyika. Affinities discussed: *P. grandisonae*, sp. nov., p. 11, figs., from Muita, E. Luembe, Angola. Affinities discussed. Ann. Mus. Congo belg. 8vo 34 1954, Laurent, R. (2).—*Rana* (*Ptychadaena*) *longirostris*, distinct species, includes *R. schubotzi*, *R. leonensis* and *R. guerzeae*. Compared with *R. aequiplicata*, Guibé, J. & Lamotte, M.—*P. loveridgei*, sp. nov., p. 14, figs. from Tare, Busanz, a Astrida region, 1,800 m. approx., Ruanda. Near to *Pt. uzungwensis*. Ann. Mus. Congo belg. 8vo 34 1954, Laurent, R. (2).—*P. macrocephala*, a synonym of *Pt. uzungwensis*, Laurent, R. (2).—*R. mascareniensis*, from Portuguese Guinea, Teixeira da Mota, A.—*R. oxyrhynchus oxyrhynchus*, from Northern Frontier Division, Kenya, Battersby, J. C.—*P. oxyrhynca oxyrhynca*, from Angola. Note on status of *P. o. gribinguiensis*, Laurent, R. F. (4).—*P. taenioscelis*, sp. nov. p. 25, figs., from Lukula, near Kiambi, Tanganyika;

near to *Pt. uzungwensis*, Ann. Mus. Congo belg. 8vo 34 1954, Laurent, R. (2).—*P. uzungwensis*, includes *Pt. macrocephala*, Laurent, R. (2).

Pyxicephalus adpersus, on breeding habits and sexual dimorphism; new type of pattern in spawning, Balinsky, B. I. & J. B.—[*Pyxicephalus*] *Rana adpersa*, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—*P. delalandii*, from Northern Frontier Division, Kenya, Battersby, J. C.

Rana, see also references under *Ptychadaena*.

Rana, circulatory system figd., Brien, P.—Key to and descriptions of Philippine species, Inger, R. F. (1).—Key to Mexican species, Zweifel, R. G. (2).

Rana adpersa, see under *Pyxicephalus*.

Rana afghana, vertebral column, Brien, P.

Rana agilis, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—Breeding times; development of spawn, Hoefke, R. (1).—Secretory activity during ontogeny, Mazzi, V. (3).

Rana areolata, further observations on breeding congresses and sites, Bragg, A. N. (5).

Rana arvalis, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—Breeding dates, Hoefke, R. (1).—A review of lens regeneration, Reyer, R. W. (1).—Temperature preference, Strübing, H.—On frequency distribution in east central Sweden, Walden, H. W.—*R. a. wolterstorffi*, occurrence in Burgenland, Austria, fig., Sochurek, E. (2).

Rana aurora, from Contra Costa County, California, Stebbins, R. C.

Rana berlandieri, effect of temperature on development of labial teeth and mandible, figs., Bresler, J.—Variation in labial formula with development, Bresler, J. & Bragg, A. N.

Rana bibroni, see under *Ptychadaena*.

Rana breviceps, note on the presence of a tibio-tarsal tubercle, Bhaduri, J. L. & Kirpalani, M.

Rana cancrivora cancrivora, from Philippines; note on status, variation, ecology and sex dimorphism; foot and head figd., Inger, R. F. (1).

Rana capito, general note on habits, Bogert, C. M. (1).

Rana carnivora, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Rana cascadae, from Multnomah County, Oregon, Burns, D. M.—Common in Crater Lake National Park, S. Oregon; note on life history, Farner, D. S. & Kezer, J.

Rana catesbeiana, in New Brunswick and Nova Scotia; absent from Prince Edward Island, Bleakney, S. (1).—General notes on breeding habits, size and use as food for man, Bogert, C. M. (1).—In S.E. Michigan, Duellman, W. E. (2).—Common in Tennessee, Endsley, J. R.—Homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—Chorioid plexus, fig., Hilton, W. A.—Very common in Louisiana. Collected for food, Liner, E. A.—Life span 16 years, Nigrelli, R. F.—A review on lens regeneration, Reyer, R. W. (1).—From Pleistocene deposit, Kansas, Tihen, J. A.—Toxicity of anticholinesterase drugs (sarin), Wilbur, C. G.—Kidney structure; relation between canaliculi and sperm path, figs., Yoshioka, S.—Distinguished from other Mexican species of *Rana*, Zweifel, R. G. (2).

Rana clamata, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Rana clamitans, common on Prince Edward Island; range extensions to include north shore of gulf of St. Lawrence, Bleakney, S. (1).—Auditory apparatus in the larva, figs., Brien, P.—In S.E. Michigan, Duellman, W. E. (2).—Common in W. Tennessee, Endsley, J. R.—From Unami valley, S.E. Pennsylvania, Hudson, R. G.—Common in Louisiana, particularly in woodlands, Liner, E. A.—Geographic variation; species divisible into northern *clamitans melanota* (Rafinesque) and southern coastal plain *clamitans clamitans*; map, photos., Mecham, J. S.—Life span 10 years, Nigrelli, R. F.—In S. Carolina, Quinby, J. A. (1).—A review on lens regeneration, Reyer, R. W. (1).—Post-

metamorphic regeneration of forelimb by increased nerve supply, Singer, M.—Thyroid function in tadpoles, Steinmetz, C. H.—Temperature preference, Strübing, H.

Rana crassipes, larval development; figs., Lamotte, M. & Zuber-Vogeli, M. (1).

Rana cyanophlyctis, in Pakistan; note on habits, figs., Mertens, R. (3).—Study of oocytes under phase contrast microscope, figs., Nath, V. & Molhotra, S. K.

Rana dalmatina, masculinization by large doses of oestradiol, Bellanca, A.—Labyrinth, figs., Brien, P.—Influence of pronephros on primary ureter, Cambar, R. (1).—Experimental linking of mesonephric tubes and primary ureter, Cambar, R. (2).—Table for the normal development, Cambar, R. & Marrot, B.—Hatching mechanism, Cambar, R. & Guillaume, R.—Importance of Ca to the tadpole, Devaux, H. & Cambar, R.—Common in Burgenland, Austria, Sochurek, E. (2).—Temperature preference, Strübing, H.

Rana dubita, now *R. e. everetti*, Inger, R. F. (1).

Rana erythraea, from the Philippines; note on ecology and secondary sex characters, Inger, R. F. (1).—Common in swamps and rice fields in Malaya, Tweedie, M. W. F. & Harrison, J. L.

Rana esculenta, heart response to stimulation, Acolait, L. & Cornier, P.—Statistical study of skin coloration, Balli, A.—Appearance of liver glycogen during development, Beaumont, A.—Response to hypertonic solutions, Benoit, P. H. & Etzensperger, J.—On the eye and labyrinth, Brien, P.—Effect on heart beat of radioactive Tyrode, Cambar, R.—Structure of visual cells, Carasso, N.—Supernumerary left arm in life; duplication in pectoral girdle, Chalaux, J.—Effect of tetraethylammonium, Cier, J. F. & Mazars, P.—Effect of temperature on the rest potential in isolated eye, Cornu, L. & Clottes, A.—Experimental tagging, Dely, O. G.—Effect of chemicals on heart, Donzelot, E. & Milovanovich, J.-B.—Histochemical study of polysaccharides, Gerzeli, G.—Histochemical study of acid polysaccharides in pancreas, figs., Ghiara, F.—Homology of the otic element and condition of the depressor mandibulae muscle, Griffiths,

I.—Action of injected poison of *Bufo formosus* on sperm movement, Hinglais, H. & Hinglais, M.—Breeding dates; development of spawn, Hoefke, R. (1).—Variations in populations on Bornholm, Denmark, Larsen, A.—Effect of adrenalin on action potential, Legoux, J. P. & Minz, B.—Overgrowth of dorsal chord by treatment with urea, Leone, V.—Notes, Leutscher, A. (1).—General notes; photos., Lierath, W. (3).—In winter; effect of ice, Lüps, E. M. D.—Experimental nerve physiology, Mambrini, J.—On distribution and structure of mast cells, Mazzi, V. (2).—Induction of supernumerary limbs, Perri, T. & Notarnicola, L.—Cytology of liver cells in tadpole, Raïkis, B. N.—Notochord evocation by urea and high pH, Ranzi, S. & Citterio, P.—Potency of cephalic region in embryo, Raunich, L.—Differentiation of the lens, figs., Raven, C. P.—A review on lens regeneration, Reyer, R. W. (1).—Sex reversal in tadpoles by plant estrogens, Sabbadin, A. & Mengarda, G.—Vision and orientation of eye, Schneider, D.—Up to 500 m. on Elba; *e. lessonae* also observed, Sochurek, E. (1).—Occurrence in Burgenland, Austria; note on frequency of *e. lessonae*, Sochurek, E. (2).—Temperature preference, Strübing, H.—Action potential from the ovary, Umrath, K.—Reaction to horse serum, Urbain, A. & Roth, P. C. J.—Rather rare in Provencal, Vanden Eeckhoudt, J. P.—Organogenesis of the crystalline lens, Vincentiis, M. de.—*R. e.* (var. *ridibunda*) very numerous in the Camargue, France, Petit, G. & Schachter, D.

Rana everetti, from Philippines. Subspecies recognised:—*e. albotuberculata* subsp. nov. (p. 311) type locality Cabalian, Leyte; *e. luzonensis* (includes *Rana guerreroi*, *R. igorata*, *R. tafti* and ? *R. merrilli*), Fieldiana, zool. 33 1954, Inger, R. F. (1).

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Rana fuscigula angolensis, from Dundo, Angola. Note on status and range, Laurent, R. F. (4).

Rana (Conraua) goliath, note on size, weight and habitat, Bogert, C. M. (1).

Rana graeca, histological study of the gonads and sex differentiation, Lepori, N. G. & Axianas, L.

Rana grunniens, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Rana grylio, in Louisiana; collected for food, Liner, E. A.

Rana guerzea, a synonym of *R. longirostris*, Guibé, J. & Lamotte, M.

Rana hexadactyla, distribution of xanthine oxidase in organs, Friedmann, H. C. (1).—Alkaline phosphatase in glomerulus of kidney, Pillai, T. S. & Iyengar, V. K. S.

Rana iberica, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Rana japonica, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—Mechanical stimulation of muscle fibres and resulting contractions, Hiramoto, Y.—Gynogenetic haploids by inseminating eggs of *R. nigromaculata*, Miyada, S.—Study of cytoplasmic granules in erythrocytes, Nagatani, Y.—Effect of lithium on egg, Ōgi, K.—A review on lens regeneration, Reyer, R. W. (1).—Changes in muscle fibre volume on tetanic contraction, Sato, T. G. (2).—Importance of presumptive mesoderm in visceral asymmetry, Takaya, H.—Kidney structure; relation between canaliculi and sperm path, figs., Yoshioka, S.

Rana kuhli, from Mt. Kina Balu, N. Borneo, Inger, R. F. (2).

Rana latasti, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Rana leonensis, a synonym of *R. longirostris*, Guibé, J. & Lamotte, M.

Rana limnocharis, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—Map of distribution of *R. l. limnocharis* and *R. l. vittegera*, Inger, R. F. (1).—Occurrence of tetraploidy; normal ovaries, Kawamura, T. & Moriwaki, T.—*R. l. vittegera*, note on status and sex dimorphism; head figd., Inger, R. F. (1).

Rana luctuosa, from Mt. Kina Balu, N. Borneo, Inger, R. F. (2).

Rana macrodon, from the Philippines; the following subspecies are recognised: *m. magna*; *m. acanthi*; *m. macrocephala*, subsp. nov. (p. 287) type locality Sampaloc, Tayabas Province, Luzon; *m. visayanus*, subsp. nov. (p. 289) type locality Siquijor Island, Fieldiana, zool. 33 1954, Inger, R. F. (1).—From Malaya; note on diet, Tweedie, M. W. F. & Harrison, J. L.

Rana macroglossa, from S.E. highlands, Guatemala; note on habitat, Stuart, L. C. (2).—Affinities with Mexican species of *Rana* discussed; distribution map, Zweifel, R. G. (2).

Rana mascareniensis, see under *Ptychadaena*.

Rana megapoda, distinguished from other Mexican species of *Rana*. Known only from Jalisco around L. Chapala, Zweifel, R. G. (2).

Rana melanomenta, redescribed, Inger, R. F. (1).

Rana micrixalus, fig., Inger, R. F. (1).

Rana microdisca, distribution map. Subspecies recognised in Philippines:—*m. leytenis*, foot figd.: *m. palavanensis*, foot figd., Inger, R. F. (1).—*R. m. palavanensis*, from Mt. Kina Balu, N. Borneo, Inger, R. F. (2).

Rana montezumae, from S. tip of central Mexican plateau. Foot figd., Zweifel, R. G. (2).

Rana moorei, known only from near Palieltla, San Luis Potosi. Distinguished from other Mexican species of *Rana*, Zweifel, R. G. (2).

Rana nicobariensis javanica, map of range, Inger, R. F. (1).—*R. n. nicobariensis*, from the Philippines; includes *R. sulvensis*, Taylor and *R. sanchezi*, Taylor. Map of range, Inger, R. F. (1).

Rana nigromaculata, assay of acetylcholine content in skin and cholinesterase activity, Fujii, T. & Chino, H.—Photochemical properties in skin, Hama, T. & Goto, T.—Photochemical changes in skin, Hama, T., Goto, T. & Kushibiki, K.—Inhibition of embryonic development after treatment with KCN and dinitrophenol, Ikushima, N. (2).—Determination of glycogen content in lithium treated embryos, Mifune, S.—Gynogenetic haploids by insemination with *R. japonica* and *R. rugosa* sperm, Miyada, S.—Variations in the species

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Rana occipitalis, larval development; figs., Lamotte, M. & Zuber-Vogeli, M. (1).—From Portuguese Guinea, Teixeira da Mota, A.

Rana oxyrhynchus, see under *Ptychadaena*.

Rana palmipes, in association with *R. pipiens* at 910 m. in S.E. Guatemala; note on habitat, Stuart, L. C. (2).—Of Costa Rica, fig. Note on validity of subspecies, Taylor, E. H. (2).—Affinities with Mexican *Ranas* discussed; distribution map, Zweifel, R. G. (2).

Rana palustris, occurs in New Brunswick and Nova Scotia; absent from Prince Edward Island, Bleakney, S. (1).—[*Rana palustris*], overwintering in Nova Scotia, Bleakney, J. S. (2).—*R. palustris*, note on poison secretions, Bogert, C. M. (1).—On its occurrence in Alabama; note on habitat in streams and caves, Brown, J. S. & Eoschung, Jr., H. T.—In S.E. Michigan, Duellman, W. E. (2).—Distinguishing characters of larva, Gosner, K. L. & Black, I. H.—From Unami valley, S.E. Pennsylvania, Hudson, R. G.—From a cave in S.W. Virginia, Newman, W. B. (1).—A review on lens regeneration, Reyer, R. W. (1).—Regeneration of forelimb after metamorphosis by increased nerve supply, Singer, M.—Study of the origin of chromatophores and factors controlling their distribution, Stevens, L. C.

Rana papua, discussion on dispersal of the group (subspecies *p. florensis*, *p. novaebritannae* and *Rana sanguinea*). Distribution map, Inger, R. F. (1).

Rana parva, from Mindanao; note on ecology; foot figd., Inger, R. F. (1).

Rana pipiens, on spawning reflex factors and response to fish pituitary gonadotrophins, Atz, E. H. & Pickford, G. E.—Action of antimetabolites and activity of 6-Mercaptopurine on embryonic and regenerating tissues, Bieber, S. & R. & Hitchings, G. H.—Common on Prince Edward Island; extension of range 100 mls. to north in Labrador, Bleakney, S. (1).—General notes on distribution, Bogert, C. M. (1).—From Pleistocene-Recent cave deposit in Nevada, Brattstrom, B. H.—On the eye (rods and cones figured), Brien, P.—Glycolysis during early development, Cohen, A. I.—From Tamaulipas, E. Mexico, Darling, D. M. & Smith, H. M.—Occurrence and distribution of neural perivascular melanophores, Dawson, A. B.—In S.E. Michigan, Duellman, W. E. (2).—From Jorullo, Mexico, Duellman, W. E. (3).—Distribution of phosphorus in gastrula, Grant, P.—Reaction of the yolk platelets of the egg in presence of divalent cations, Gross, P. R.—Renal neoplasm after 4 years in zoo, Hill, W. C. O.—Chorioid plexus, fig., Hilton, W. A.—From E. Bucks County, Pennsylvania, Hudson, R. G.—Morphogenesis of pronephros, Jaffee, O. C.—*R. pipiens* [*pipiens*], role of fibrous protein in morphogenesis of nervous system, Kaplan, J. G.—*R. pipiens*, occurrence and distribution of metachromasy in egg jelly, Kelly, J. W.—Emission of spermatozoa after injection of gonadotropins is independent of anterior lobe of hypophysis, Kissen, A. T.—Substances inhibiting development, Liedke, K. B., Engelman, M. & Graff, S.—Effects of carcinogen, McCallion, D. J.—Effect of repeated injections of chorionic gonadotropin, McCourt, R. P.—Vasodilatory effect of urethane on tadpole, McMillan, D. B. & Battle, H. I.—Analysis of stomach contents, Moore, J. E. & Strickland, E. H.—Life span 6 years, Nigrelli, R. F.—Cytological study of intermedurin production in pars intermedia, Ortmann, R.—Effect of lithium chloride on development of eggs, Paterson, M. C.—From Coalcoman, Michoacan, Mexico, Peters, J. A.—In S. Carolina, Quinby, J. A. (1).—Water uptake during development, Rappaport, R.—A review on lens regeneration, Reyer, R. W. (1).—Regeneration of

forelimb after metamorphosis by increased nerve supply, Singer, M.—Interaction between dead organiser and presumptive ectoderm, Smith, A. E. S. & Schechtman, A. M.—Origin and development of the tail, Smithberg, M.—Technique of electron-track autoradiography, Sperling, F.—Cell adhesion and the role of antigens in embryos, Spiegel, M.—Study of the origin of chromatophores and factors controlling their distribution, Stevens, L. C.—Temperature preference, Strübing, H.—From S.E. highlands of Guatemala, Stuart, L. C. (2).—From Pleistocene deposit, Kansas; note on relative width of sacrum in relation to other N. American *Rana*, Tihen, J. A.—Embryonic abnormalities in experimental hybrids between Wisconsin and Mexican members of the species, Volpe, E. P. (1).—Thyrotrophic field effect of immature hypophysis, Washowski, H. E.—Study by electron microscope of basement lamella of larval skin, Weiss, P. & Ferris, W.—*R. p. pipiens*, from Labrador, Backus, R. H.—*R. p. sphenoccephala*, habitat on Shackleford Banks, N. Carolina, Engels, W. L.—Common in Louisiana. Found in brackish water in Terrebonne Parish, Liner, E. A.

Rana pleskei, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Rana pliocenic, sp. nov. from Middle Pliocene (Hemphillian), Pinole Tuff, San Pablo Bay, $\frac{1}{2}$ mile N.E. of Rodeo, Contra Costa County, California; figs. of skeletal remains, p. 85, Copeia 1954, Zweifel, R. G. (1).

Rana pretiosa pretiosa, pattern of movement, Carpenter, C. C.

Rana pustulosa, first record of occurrence in Michoacan, Mexico, Peters, J. A.—Range: mountainous regions from W.C. Durango south and west of the plateau to Oaxaca. Foot figd., Zweifel, R. G. (2).

Rana ridibunda, from near Bougie, Algeria, Bellairs, A. d'A. & Shute, C. C. D.—Homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—Variations in populations on Bornholm, Denmark, Larsen, A.—Notes, Leutscher, A. (1).—A review on lens regeneration, Reyer, R. W. (1).—Temperature preference,

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Rana rugosa, determination of glycogen content in lithium treated embryos, **Mifune, S.**—Gynogenetic haploids by inseminating *R. nigromaculata* eggs, **Miyada, S.**—Study of cytoplasmic granules of erythrocytes, **Nagatani, Y.**—A review on lens regeneration, **Reyer, R. W.** (1).—Kidney structure; relation between canaliculi and sperm path, figs., **Yoshioka, S.**

Rana sanguinea, taxonomic notes on Philippine specimens; sex dimorphism; head figd., **Inger, R. F.** (1).

R. schubotzi, a synonym of *R. longirostris*, **Guibé, J. & Lamotte, M.**

Rana septentrionalis, extension of range in Labrador, **Backus, R. H.**

Rana sierramadrensis, affinities with Mexican species of *Rana* discussed; distribution map, **Zweifel, R. G.** (2).

Rana signata, from the Philippines. Subspecies recognised:—*s. grandocula* (includes *Rana yakani* and *R. philippinensis*); *s. similis* (includes *Rana signata* Blgr.); *S. moellendorffi*; figs., **Inger, R. F.** (1).

Rana sinaloae, sp. nov. from 14 miles by road southwest of El Batel, Sinaloa, Mexico, 4,200 feet; allied to *R. palmipes*, *R. sierramadrensis* and *R. macroglossa*, Bull. S. Calif. Acad. Sci. 53 3 1954 p. 131 fig. and photo., **Zweifel, R. G.** (2).

Rana spheenocephala, common in W. Tennessee, **Endsley, J. R.**—Food and feeding habits, **Kilby, J. D.**

Rana sylvatica, common on Prince Edward Island. *R. s. cantabrigensis*, note on range; extension to north in Quebec, **Bleakney, S.** (1).—General note on breeding habits, **Bogert, C. M.** (1).—A review on lens regeneration, **Reyer, R. W.** (1).—Study of the origin of chromatophores and factors controlling their distribution, **Stevens, L. C.**—Thyrotrophic field effect of immature hypophysis, **Washowski, H. E.**—Range of the species and variation in size of eggs and sperms of subspecies *s. sylvatica*, *s. cantabrigensis* and *s. cherokeeana*, subsp. nov. from Murphy, N. Carolina, 1,540 ft., Appalachian Mts., p. 764 photos.; note on results of cross

breedings with sperm of *R. boylii*, *R. temporaria*, *R. pipiens*, *R. arvalis*, Proc. Iowa Acad. Sci. 60 1954, **Witschi, E.**—*R. s. cantabrigensis*, from Labrador, **Backus, R. H.**—*R. s. sylvatica*, from S.E. Pennsylvania; eggs eaten by newt, **Hudson, R. G.**—On its range in S. Carolina, **Quinby, J. A.** (2).

Rana tarahumarae, range: western slopes of Sierra Madre Occidental in Sonora and Chihuahua, **Zweifel, R. G.** (2).

Rana temporaria, heart response to stimulation, **Acolait, L. & Cornier, P.**—Rôle of thyroid and hypophysis in glycogen deposition in liver, **Beaumont, A.**—Development of vertebral column, olfactory organ (fig.); note on chromosomes, **Brien, P.**—Structure of visual cells, **Carasso, N.**—Action of alkali on heart, **Donzelot, E. & Milovanovich, J.-B.**—Radio autographs as indicators of neural induction, **Ficq, A.**—Action of sex hormones on the gonad and sex characters, figs., **Gallien, L.** (4).—Homology of the otic element and condition of the depressor mandibulae muscle, **Griffiths, I.**—On the resistance of developing embryo to disturbing factors, **Gurevich, F.**—Breeding dates, development of spawn, **Hoefke, R.** (1).—Development of eggs, figs., **Hoefke, R.** (2).—Energy requirement for sodium extrusion from muscle, **Keynes, R. D. & Maisel, G. W.**—Action of lithium ions on morphogenesis, **Lallier, R.**—Notes, fig., **Leutscher, A.** (1).—Experimental nerve physiology, **Mambrini, J.**—Study of cytoplasmic granules of erythrocytes, **Nagatani, Y.**—Heart abnormality; displacement forward from the pectoral girdle, **Price, M.**—Action of triiodothyromine on metamorphosis, **Roth, P. C. J.** (1).—Absorption by spermatozooids of coloured substances; photodynamic effect, **Ruhland, G.**—Study of a hermaphrodite female, **Sahli, F. & Legendre, R.**—Development of visual cells and photomechanical movements in larvae, **Saxen, L.** (1).—Structure and functional development of visual cells, figs., **Saxen, L.** (2).—Vision and orientation of eye, **Schneider, D.**—Temperature preference, **Strübing, H.**—Biology in National Park of Gran Paradiso, N.E. of Turin, Italy, **Tortonese, E. & Rossi, L.**—Occurs in the north of Provençal at 1,000 metres, **Vanden Eeckhoudt, J. P.**—On frequency distribution in east

central Sweden, Walden, H. W.—Dynamics of limb growth, Wurbach, H. (1).—Experimental hormonal control of growth and development in the tadpole, Wurbach, H. (2).—*R. t. temporaria*, note on habits; photo., Lierath, W. (1).—Typical inhabitant of wooded hills in Burgenland, Austria, Sochurek, E. (2).

Rana tigrina, retardation of metamorphosis by treatment with hormones, vitamins and antibiotics, Bhattacharya, G. C.—In Pakistan, Mertens, R. (3).—Study of oocytes under phase contrast microscope, figs., Nath, V. & Molhotra, S. K.—Anatomy of heart of tadpole and observations on circulatory system. Discussion of phylogeny, Prakash, R.—Anatomy and action of heart; classical hypothesis and complete mixture invalidated, Sharma, H. L.—Response of unstriated muscle to ions, Singh, S. I. & Singh, I. (1).—Contraction of unstriated muscle, Singh, S. I. & Singh, I. (2).

Rana vittigera, considered a subspecies of *R. limncharis*, head figd., Inger, R. F. (1).

Rana woodworthi, redescribed, Inger, R. F. (1).

Schoutedenella, discussion of genus, its status and relations. Species recognised and new species described, ranges given:—*globosa globosa*: *globosa pasteelsi*, subsp. nov., p. 35, Kipoya, 700 m., Fizi Kivu territory: *mossoensis*, sp. nov., p. 36, Murugaragara, Mosso, Rutana territory, Urundi, 1,200 m.: *xenochira*: *schubotzi schubotzi*, marked sexual dimorphism: *s. kivuensis*: *discodactyla*, sp. nov., p. 37, Lutunguru, 1,500–1,650 m., Lubero territory, North Kivu: *crusculum*: *pyrrhoscelis*, marked sexual dimorphism: *hematogaster*, sp. nov., p. 37, May ya Moto, R. May ya Moto, 2,350–2,400 m., Mwenga territory, S. Kivu, near to *discodactyla* and *xenodactyloides*: *x. xenodactyloides*: *x. nkukae*: *spinalis*: *xenodactyla*: *nimbaensis*: *sylvatica*, sp. nov., p. 38, Buta, near to *xenodactylus* and *loveridgei*: *loveridgei*: *vercammeni*, sp. nov., p. 39, Mwana, 1,650 m., Mwenga territory, S. Kivu, note on affinities: *lameerei lameerei*: *l. muta*: *l. subsp.*, from S. Kivu and Congo-Nile. Species tentatively referred to *Schoutedenella*:—*Arthroleptis bivittatus*, *A. taeniatatus*, *A. milleti-horsini*, *A. zimneri*, Laurent,

R. F. (1).—*Schoutedenella lameerei* subsp., from Dundo, N.E. Angola. *S. muta* Witte may be a synonym or a race of *S. lameerei*, Laurent, R. F. (4).

Staurois natator, taxonomic notes, sex dimorphism; hand figd., distribution map, Inger, R. F. (1).—*S. whiteheadi*, from Mt. Kina Balu, N. Borneo, Inger, R. F. (2).

Tomopterna rugosa, from Chibia, Angola. Includes *Rana signata* Ahl and *R. cacondana* Ahl, Laurent, R. F. (4).

RHACOPHORIDAE

Chiromantis petersi kelleri, from Northern Frontier Division, Kenya, Battersby, J. C.

Hazelia spinosa, considered a synonym of *Philautus spinosus*, Inger, R. F. (1).

Hyperolius, a statistical method of treating taxonomic characters of Mt. Nimba species, Laurent, R. F. (3).

Hyperolius bocagei, from Dundo, Angola. Note on sexual dimorphism, Laurent, R. F. (4).

Hyperolius cinnamomeoventris, from Angola, Laurent, R. F. (4).—*H. concolor*, from Portuguese Guinea, Teixeira da Mota, A.

Hyperolius guineensis, from Portuguese Guinea, Teixeira da Mota, A.

Hyperolius horstocki, temperature preference, Strübing, H.

Hyperolius kivuensis kivuensis, from Angola. Note on range, Laurent, R. F. (4).—*H. knysnae* sp. nov. from Knysna, Cape Province, Union of South Africa p. 95, Ann. Natal Mus. 13 1 1954, Loveridge, A.

Hyperolius machadoi, sp. nov. from Camissombo, Angola. Note on affinities. Publ. Cult. Cia Diamant. Angola No. 23 1954 p. 80 figs., Laurent, R. F. (4).—*H. marmoratus angolensis*, from Angola. Seasonal influence on size discussed, Laurent, R. F. (4).—*H. m. nyassae*, temperature preference, Strübing, H.—*H. melanoleucus*, in captivity; photo., Oeser, R. (2).

Hyperolius nasutus nasutus, from Dundo, Angola, Laurent, R. F. (4).

Hyperolius platyceps angolanus, from Dundo, Angola. Affinities discussed, Laurent, R. F. (4).—*H. polli*, from Tshikapa, Angola. Affinities with *angolanus*, *osorioi* and *fasciatus* discussed, Laurent, R. F. (4).

Hyperolius quinquevittatus, from Dundo, Angola. Note on colour pattern, Laurent, R. F. (4).

Hyperolius steindachneri steindachneri, from Dundo, Angola. Evolution of colour pattern and sexual dimorphism discussed, Laurent, R. F. (4).

Hyperolius tuberculatus, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Hyperolius viridiflavus, from Northern Frontier Division, Kenya, Battersby, J. C.

Kassina senegalensis, from Northern Frontier Division, Kenya, Battersby, J. C.—*K. s. angeli*, from Luembe, Angola. Discussion on status and range of *s. angeli* and *s. senegalensis*, Laurent, R. F. (4).

Leptopelis aubryi, from Dundo, Angola; first record from Angola, Laurent, R. F. (4).—*L. bocagei*, from Angola, Laurent, R. F. (4).

Megalixalus fornasini, olfactory organ, fig., Brien, P.

Philautus, note on status. Nuptial pads of some species differ from those of *Rhacophorus*. Revision of Philippine species, Inger, R. F. (1).

Philautus acutirostris, from the Philippines. Includes *P. basilanensis* Taylor and *P. woodi* Stejneger. Note on sex dimorphism and ecology, Inger, R. F. (1).—*P. alticola*, redescribed, Inger, R. F. (1).

Philautus basilanensis, considered a synonym of *P. acutirostris*, Inger, R. F. (1).—*P. bimaculatus*, from Mindanao, Philippines. Includes *P. zamboangensis* Taylor. Redescribed; note on taxonomy, Inger, R. F. (1).—New to Mt. Kina Balu, N. Borneo, Inger, R. F. (2).

Philautus hazelae, referred to *Cornufer*, Inger, R. F. (1).

Philautus leitensis, note on affinities, Inger, R. F. (1).—*P. longicrus*, from the Philippines. Redescribed; note on affinities, sex dimorphism and habitat, Inger, R. F. (1).

Philautus mindorensis, considered a synonym of *P. schmackeri*, Inger, R. F. (1).

Philautus polillensis, referred to genus *Cornufer*, Inger, R. F. (1).

Philautus schmackeri, from Mindoro, Philippines. Includes *P. mindorensis*, Redescribed; note on sex dimorphism and ecology, Inger, R. F. (1).—*P. spiculatus*, referred to genus *Rhacophorus*, Inger, R. F. (2).—*P. spinosus*, includes *Hazelia spinosa* and *Rhacophorus leprosus spinosus*. Redescribed; note on sex dimorphism, Inger, R. F. (1).

Philautus williamsi, redescribed; note on affinity with *P. schmackeri*, Inger, R. F. (1).—*P. woodi*, considered a synonym of *P. acutirostris*, Inger, R. F. (1).

Philautus zamboangensis, considered a synonym of *P. bimaculatus*, Inger, R. F. (1).

Rhacophorus, key to and descriptions of Philippine Islands species, Inger, R. F. (1).

Rhacophorus appendiculatus appendiculatus, from the Philippines and Borneo. Includes *R. a. chaseni* Smith. Redescribed, note on ecology, range, sex dimorphism, Inger, R. F. (1).

Rhacophorus baluensis, sp. nov. from Bundu Tuhan, Mount Kina Balu, North Borneo; related to *R. javanus*, p. 250. J. Wash. Acad. Sci. 44 8 1954, Inger, R. F. (2).—*Polypedetes buergeri*, temperature preference, Strübing, H.

Rhacophorus colletti, new to the fauna of Mt. Kina Balu, N. Borneo, Inger, R. F. (2).—*R. cruciger*, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Rhacophorus emembranatus, sp. nov. from east slope of Mount McKinley, Davao Province, Mindanao, 950 m. p. 392, hand figd., Fieldiana, Zool. 33, 1954, Inger, R. F. (1).—*R. everetti*, from Palawan, Philippines. Redescribed (figs.); note on sex dimorphism and ecology, Inger, R. F. (1).

Rhacophorus hecticus, redescribed, Inger, R. F. (1).

Rhacophorus japonica [*Polypedetes japonica*], study of cytoplasmic granules of erythrocytes, Nagatani, Y.—*R. jerboa*, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Rhacophorus leprosus spinosus = *Philautus spinosus*, Inger, R. F. (1).—*R. leucomystax*, redescribed; notes on sex dimorphism, ecology, geographic variation (map of range). The following subspecies recognised in the Philippine Islands:—*R. quadrilineatus*: *R. linki*, Inger, R. F. (1).—From Mt. Kina Balu, North Borneo, Inger, R. F. (2).—Of Malaya, Tweedie, M. W. F. & Harrison, J. L.—*R. lisobrachius*, sp. nov. from east slope of Mount McKinley, Davao Province, Mindanao, 1,340 m., p. 390 figs., Fieldiana, zool. 33 1954, Inger, R. F. (1).

Rhacophorus maculatus, note on development of vertebral column, Brien, P.—*R. madagascariensis*, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—*R. maximus*, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Rhacophorus nigropalmatus, of Malaya; general notes on habits and breeding, Tweedie, M. W. F. & Harrison, J. L.

Rhacophorus pardalis pardalis, from the Philippines and Borneo; redescribed, note on ecology and sex dimorphism; hand figd., Inger, R. F. (1).

Rhacophorus robustus, homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.

Rhacophorus schlegeli, study of cytoplasmic granules of erythrocytes, Nagatani, Y.—*R. s. arborea*, pattern of intracellular oxidation of reduced dyes in developing embryo, Ikushima, N. (1).—*R. spiculatus*, from Mt. Kina Balu, N. Borneo, Inger, R. F. (2).—*R. surdus*,

from Luzon. Notes on taxonomy and sex dimorphism, Inger, R. F. (1).

RHINODERMATIDAE

Rhinoderma, note on reproduction, Brien, P.—*R. darwini*, distribution and vernacular, Barran, E. F. & Freiberg, M. A.—Note on parental habits in caring for eggs, Bogert, C. M. (1).—Natural history notes, habitat figd., Cei, J. M.—Study of oxygen consumption in relation to body weight, Günther, B. & Micco, E.—From Isla Chiloé, N.E. of Ancud, Chile, Schmidt, K. P. (3).

SCAPHIOFIDAE

Scaphiopus [*Spea*] *bombifrons*, decrease in numbers in C. Oklahoma, Bragg, A. N. (1).—Variation in labial formula with development, Bresler, J. & Bragg, A. N.—†*Scaphiopus* (*Spea*) *bombifrons*, ilium in Kansas Pleistocene, Tihen, J. A.—*S. couchi rectifrenis*, from Sonora, Mexico. Range extends to Arizona, Langebartel, D. A. & Smith, H. M.—*S. hammondi*, population study of sympatric species in New Mexico; isolating mechanisms discussed, Lowe, C. H., Jr. (1).—Discussion on buccal dimorphism in larvae, Orton, G. L.—*S. h. multiplicata*, from Sonora, Mexico, Langebartel, D. A. & Smith, H. M.—*S. holbrookii*, from Henderson, Tennessee, Endsley, J. R.—From Shackleford Banks, N. Carolina, Engels, W. L.—Homology of the otic element and condition of the depressor mandibulae muscle, Griffiths, I.—*S. h. holbrookii*, from New Hanover County, N. Carolina, Funderburg, J. B.—Larval development; diagnostic characters, figs. to distinguish from *Bufo woodhousei fowleri*, Gosner, K. L. & Black, I. H.—In S. Carolina, Quinby, J. A. (1).—*S. hurterii*, aggregation and feeding behaviour in tadpoles, Bragg, A. N. (3).—Variation in labial formula with development, Bresler, J. & Bragg, A. N.

Spea, see under *Scaphiopus*.